

The
**AMERICAN
RIFLEMAN**



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PETERS TACKHOLE .22's MID-WINTER SMALLBORE

REG. U. S. PAT. OFF.

Kenneth Recker wins both Mid-Winter and Southeastern Smallbore Rifle Matches — Peters takes 13 out of 17 Firsts

One of the most sweeping victories ever to be recorded took place at St. Petersburg, Florida, March 3 to 7. Peters Tackhole .22's won the majority of all the events as well as taking second and third in a large percentage of the matches. This record of Peters Tackhole

.22's illustrates what can be accomplished with uniform high-accuracy cartridges at any shoot anywhere.

Kenneth Recker romped home with the championship as well as taking a number of individual matches. In the 50-Meter Individual Metallic Sight Match, Recker

KENNETH RECKER (left)—star performer at St. Petersburg, was winner of the Southeastern and Mid-Winter Smallbore Championships with Peters Tackhole.



E. A. COMER and T. F. BRIDGELAND (above) won the Long Range Two-Man Team Match (389 x 400) with Peters Tackhole. Course: 200 yards.

**Peters Tackhole Scores
400 x 400; 400 x 400; and
399 x 400 in one match!**



CHAS. G. HAMBY

Most striking demonstration was in the "Individual 50-Yard Match", Chas. G. Hamby, Atlanta, winning with 400 x 400. Kenneth Recker, second with 400 x 400; and G. W. Lewallen, third with 399 x 400. All three shot Peters Tackhole .22's.



Shooters of Peters Tackhole .22's challenged all and won hands down! It was a superb demonstration of super-accuracy!

SWEET THE NATIONAL RIFLE CHAMPIONSHIP

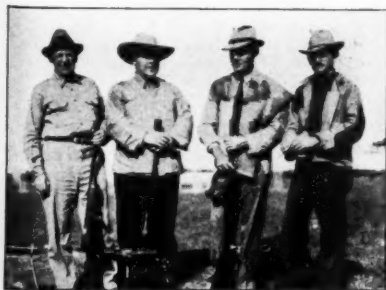
RANDLE AND POPE WIN 2-MAN TEAM MATCH



(Above) THURMAN RANDLE and R. C. POPE—shooting Peters Tackhole walked off with the 50-Meter Two-Man Team Metallic Sight Event (Score 397 x 400). In addition Randle won 6th and Pope won 3rd in the National Mid-Winter Tournament.

won with a score of 397 x 400. He took the Mid-Winter Smallbore Championship with a score of 1973 x 2000 and the Southeastern Smallbore Championship with 989 x 1000.

R. C. Pope scored 399 x 400, shooting Tackhole, grabbed the Individual Dewar Match, while G. W. Lewallen, shooting Peters, took the St. Petersburg Special with 397 x 400.



TEXAS STATE TEAM (above) won the Interstate Team Match at 50, 100 and 200 yds. with Peters Tackhole, scoring 1177 x 1200. Left to right: Thurman Randle, McLeod Greathouse, R. C. Pope, A. L. Knight.

New World's Pistol Record Set at Tampa with Peters

A new world's record of 1117 was established in the Tampa "Open Four Man Team Championship", by the Los Angeles Police Team. This team also won the ".45 Caliber Four Man Team Championship" with a new record of 1072.

Francis M. O'Connor was the star performer of the Kansas City Team, winning 3rd in aggregate at Tampa, 2nd in Havana, taking two 1sts and two 3rds in the individual matches and scoring several 4ths.

E. E. Jones won both the Tampa and Havana meets, and piled up five 1sts and two 2nds in the individual matches.



LOS ANGELES POLICE TEAM sets world's record. E. E. Jones, J. J. Engbrecht, Mark Wheeler, Lee Young. Jones' magnificent shooting with Peters won him top score in both the Tampa and Havana Pistol Tournaments.



KANSAS CITY POLICE TEAM (left to right) Ferril, Framano, Bates, and O'Connor. They were tough competition. Shooting Peters ammunition, O'Connor captured third in aggregate at Tampa; second at Havana.

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Remington Arms Company, Inc.,
Dept. E-26, Bridgeport, Connecticut.
"Tackhole" and "Filmhole" are registered trademarks of the Peters Cartridge Division.



Springtime Fancies

IN the Springtime the sportsman yearns to get outdoors to enjoy again his favorite outdoor recreation.

Especially does the shooter welcome the coming of Spring, the beginning of the outdoor season. To him it is the signal to "Load up and Shoot."

But just *shooting* is of little value and soon becomes monotonous. Competition—the chance to beat fellow shooters with an opportunity to win a medal—that is what makes target shooting the preferred sport of 100,000 sportsmen.

The N. R. A. Outdoor Home Range Matches, now getting under way, provide the kind of competitive practice that is helpful to the newcomer and expert alike. If you are not accustomed to competition in matches you will find these events an ideal introduction to serious target shooting. If you are a registered tournament devotee, there is no better way to train for the big shoots ahead than participation in these outdoor postal events.

Look over the adjoining schedule and select at least one match to shoot this Spring. You may not win this time but the number of competitors you beat will probably surprise you, and the experience you gain will be of unmeasured value in the future.

THE NRA SPRING SCHEDULE

Small Bore Rifle Matches

Match	Course
1—Dewar Course, Metallic Sights.	
2—Dewar Course, Any Sights.	
3—40 Shots at 50 Meters, Metallic.	
4—40 Shots at 50 Meters, Any Sights.	
5—20 Shots at 200 Yards, Metallic.	
6—20 Shots at 200 Yards, Any Sights.	
7—Metallic Sights Champ. (An Aggregate)	
8—Any Sights Champ. (An Aggregate)	

.30 Caliber Rifle Matches

9—200 Yard Prone, Metallic Sights.
10—200 Yard Sitting, Metallic Sights
11—200 Yard Standing, Metallic Sights

Pistol and Revolver Matches

12—22 Caliber Pistol (National Course).
13—Center Fire Pistol (National Course).
14—Service Pistol (National Course).
15—22 Caliber Slow Fire.
16—Center Fire, Slow Fire.

Junior Rifle Matches

17—40 Shots, Prone, 50 feet.
18—20 Shots, Prone, 50 yards.

Tyro Rifle and Pistol Matches

19—Dewar Course, Metallic Sights.
20—Dewar Course, Any Sights.
21—40 Shots at 50 Meters, Metallic.
22—22 Slow Fire Pistol (25 yards).
23—C. F. Slow Fire Pistol (25 yards).
24—C. F. Pistol Championship (All at 25 yards).

Special Rifle and Pistol Matches

25—Life Members Short Range Rifle.
26—Life Members Long Range Rifle.
27—Eagle Rifleman's Match.
28—Life Members C. F. Pistol (25 yards).
29—Eagle Pistol Shot's Match.

The entry fee in Junior Matches 17 and 18 is 25 cents each; in Tyro Matches 19 to 24, inclusive, the entry fee is 50 cents for each match. In all other events the entry fee is \$1.00 per match.

NATIONAL RIFLE ASSOCIATION

BARR BUILDING

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COLT Shooters Win Every Match at Tampa!

Lee Young
Los Angeles
Police

Mark Wheeler
Los Angeles
Police

Pat Baldwin
Miami Police

E. E. Jones
Los Angeles
Police

F. M. O'Connor
Kansas City, Mo.
Police

Los Angeles Police Team Set New World's Record

Champions met champions at Tampa and every winner used a Colt. It was a clean sweep; the Colt Woodsman in the .22 Matches, the Officers' Model and Shooting Master in the .38 Matches and, of course, the Colt Government Model in the 45's. The nationally famous Los Angeles Police set a new record (1117) in the four man team match, over the National Match Course, using Officers' Models exclusively. Jones of Los Angeles captured first in the aggregate and in addition won the .38 Caliber Timed Fire Match. F. M. O'Connor of Kansas City Police took the .38 Caliber Rapid Fire Match, and placed third in the aggregate. L. J. Young, also of Los Angeles Police, won the Individual Open championship. The Individual .38 Slow Fire Match went to Pat Baldwin of the Miami Police, while a pair of Los Angeles sharpshooters teamed up to take the two man event, Mark Wheeler and Jones running up a total of 558 points with their Officers' Models.

BRILLIANT SHOOTING BY U. S. ARMED FORCES

Members of Uncle Sam's military forces thoroughly demonstrated their marksmanship abilities and their allegiance to Colts. Major W. P. Richards, U. S. M. C., won the .22 Slow Fire Match with his Colt Woodsman and was runner-up in the .22 Championship Match. Lieut. H. L. Gau and Major W. A. Heddon, U. S. A., captured first and second respectively in the .45 Caliber Pistol Championship. Sgt. R. Wilzewski, G. H. Q. air force and Lieut. F. R. Lloyd, U. S. A., also contributed to the fine showing of the U. S. armed forces. Every one of these stars shot Colt Revolvers and Automatic Pistols for a clean sweep of one of the nation's fastest growing Matches. Yes, sir, Colt shooters cleaned up at Tampa.



Record Smashing Los Angeles Police Team who set world's record at Tampa Shoot. Left to Right: Wheeler, Jones, Young, Engbrecht.

U. S. BORDER PATROL Takes Four Man Police Team Championship

Over the 25 yard N. R. A. Police Course, the U. S. Border Patrol team of Askins, Knesek, Jackson and Davis came through with a margin of 12 points over the Miami Police. Davis was the high man with a score of 286. Every man on this team shoots Colts.

**Count the COLTS
on the firing line!**



COLT OFFICERS' MODEL Target Revolver Cal. .38 Special

Built on .41 frame. Heavy or Standard barrel. (Heavy barrel in 6" length only.) Hand finished action. Checked Walnut stocks. Adjustable Bead or Patridge sights, non-reflecting. Checked back strap, trigger and hammer spur. Blued finish. Length over all 6" barrel 11 1/4". Weight 6" barrel — Standard 34 ounces; Heavy 36 ounces. Choice of champions everywhere. Has everything.

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WINCHESTER
Model 52 and EZXS Tops for Zeps

Four Zeppelins Descend On Chicago

WHEN Zeppelin Rifle Club shooters are observed off the reservation, it is a sure sign that there is going to be some shooting. In Chicago April 2, 3 and 4, peacefully attending the very successful (287 contestants, including Bisley Team Schweitzer and Woodring) 2nd Annual University of Chicago Invitation small bore rifle matches, four of the boldest of the Ohio braves pulled one of their characteristic raids. In the Two Man Team Match over the Dewar course, with sixty-two teams competing, these four took unto themselves everything that was not nailed down, to wit:

First, V. Z. Canfield and A. L. Darkow, score 798 x 800.

Second, Merle Israelson and Dave Bashline, score 798 x 800.

Canfield, Darkow, Israelson and Bashline all shot Winchester Precision EZXS ammunition in this match. And all of them shot Winchester Model 52 rifles with the exception of Canfield who used a Winchester barrel with special action.

As in most important tournaments, marksmen using Winchester Model 52 rifles won most of the honors in the Chicago shoot. Besides the four Akronites mentioned above, leading winners were:

First in the Four Man Team Match—East Alton Rifle Club team, East Alton, Ill.; score 1593 x 1600. All four members used Winchester Model 52.

First in the Dewar Individual—Wm. B. Woodring, Alton, Ill.; score 400 x 400—36Xs. Shot with a Winchester Model 52.

First in the 100-Yard Metallic Sights Match—V. J. Tiefenbrunn, Alton, Ill.; score 400 x 400—21Xs. *Second*, Wm. B. Woodring, score

399 x 400—31Xs. Both shot Winchester Model 52.

First in the Aggregate Trophy Match—Wm. B. Woodring, score 1199 x 1200. *Second*, V. J. Tiefenbrunn; *Third*, E. K. Waters, Chicago, Ill. All shot Winchester Model 52.

Zep Girls Win In Florida

AT the well-attended St. Petersburg, Fla., tournament held the first week in March, present from that same Akron, Ohio, were two of the famous shooting Zep girls, Miss Minnie McCoy and Mrs. Flossie Anson. In the 100-Yard Individual Match, in competition with such shooters as the great Wm. B. Woodring, Thurman Randle, V. J. Tiefenbrunn, Charley Hamby and numerous others, Miss McCoy was the winner of *First*, with the unequalled score of 399 x 400. Again, in the Short Range Two Man Team Match, over the Dewar course, Miss McCoy and Mrs. Anson won *Third*, each scoring 398 x 400—total 796 x 800, only one point behind the winners. Both shot Model 52 and EZXS.

Wallace At Buffalo

IN February in the annual Niagara Frontier Matches at Buffalo, N. Y., Lieut. Lynn Wallace of Kenmore, N. Y., won *First* in the preliminary match, Class A, Iron Sights—scoring 198 x 200—9Xs. There were 121 competitors in this match. Wallace won the Class A 50 Shot Match, Iron Sights, scoring 498 x 500—25Xs. Also won the National Guard Match, scoring 195 x 200. In all events he used Winchester Model 52 and Precision EZXS. At this shoot J. W. Crolley of New Kensington, Pa., won the Aggregate for Class B (money) shooters. His score, 890 x 900—50Xs. He too used Winchester Precision EZXS.

Model 52 Shooters Head Bisley Team

IN selecting the United States team of small bore rifle shooters who will be sent to the British Small Bore Meeting at Bisley, England, July 5 to 10, the National Rifle Association designated the three leading shooters of 1936, judged on their records, as follows: *First*, Wm. P. Schweitzer, of Hillside, N. J. *Second*, Dave Carlson, of New Haven, Conn. *Third*, Wm. B. Woodring, of Alton, Ill. All three shooters won their standing with heavy barrel Winchester Model 52.

"Ol' Bacon Gitter" Speaks For Herself!

MENTIONED already as present, at the St. Petersburg shoot in March, the redoubtable Thurman Randle, of Dallas, Tex., used exclusively his famous Winchester Model 52, "Ol' Bacon Gitter"—and he shot in every match event. Despite "chunking away" two certain *First*s by firing in each case an X on the wrong target, he:

Won *First* in the Short Range Telescope Sight Match (50, 100 yds.), with 399 x 400; shot the high score for the winning team in the 50-Meter Two Man Team Match, 199 x 200; shot a 398 x 400 for the winning team in the Short Range Two Man Team Match; shot the second highest score, 295 x 300, for the winning Texas team in the Inter-State Four Man Team Match.

Asked about dropping those two Xs—and the December report that he had "reverently hung 'Ol' Bacon Gitter' on the wall"—he replied: "'Ol' Bacon Gitter' performed just like she always has done since I bought her in 1927. There is nothing the matter with the old gun, but sometimes I am doubtful about the man behind it."

WINCHESTER REPEATING ARMS CO., NEW HAVEN, CONN., U. S. A.

The AMERICAN RIFLEMAN

VOL. 85, No. 5

MAY, 1937

N. R. A. SERVICE

LEGISLATIVE DIVISION: Looks after the interests of the shooters in Congress and State Legislatures, carries on the organized fight against unsound anti-gun laws, encourages legislation for the aid of civilian rifle practice and assists members to obtain permits to carry firearms to and from a range in states requiring such permits.

THE AMERICAN RIFLEMAN: This magazine is the official monthly publication of the N. R. A., and as such is "The Voice of the N. R. A." Non-political and non-sectarian in policy and free from commercial domination, it can and does speak freely, frankly and with authority on all shooting matters.

TECHNICAL DIVISION: Helps members with their personal shooting problems, reports in THE AMERICAN RIFLEMAN each month practical tests and critical examinations of new guns and equipment, and gives by personal letter advice on the selection of the right gun for a specific purpose, reloading, restocking, etc.

CLUB SERVICE DIVISION: Assists shooters in organizing local rifle and pistol clubs, furnishes detailed diagrams for the construction of regulation indoor and outdoor ranges, suggests a varied program and competition to keep up the interest of members, and generally assists affiliated units by passing along the successful experiences and ideas of other clubs.

MEMBERSHIP EXTENSION: Operates as a service division by furnishing members with sales literature and printed information so that they may explain to fellow sportsmen the value and benefits of N. R. A. membership and, moreover, because increased membership means an extension of N. R. A. service, it serves to benefit members in this way.

COMPETITIONS DIVISION: Conducts a year-round program of home-range matches in which members may win distinctive medals while practicing at home with rifle and pistol, aids state associations and civilian clubs in planning and conducting regional, state and local shooting matches, and gives members helpful personal advice on their individual target-shooting problems.

JUNIOR DIVISION: Provides individual and club memberships for junior shooters, boys and girls alike; conducts a year-round program of competitive and qualification shooting, and teaches Young America how to handle firearms safely and properly. No father should hesitate to support its good work.

POLICE DIVISION: Assists police departments in marksmanship training of their officers. Through the Association's far-flung contact and with the aid of experienced hands to carry on the work, this division is performing a public service which warrants the support of every good citizen.

PUBLICITY DIVISION: Endeavors to educate the American public through the public press to the fact that the man who likes to shoot is not a criminal and, although its services are intangible in character, it represents an important chain in the campaign "to make America, once again, a Nation of Riflemen."

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CONTENTS

Cover Photo

Sent in by Alex. Barnum, Holland, Mich. Picture was taken by Herman Prins, of Holland, Mich., during trip down Salmon River in Idaho with Elmer Keith.

Powder Smoke	6
An Intimate View of Africa	7
By ARTHUR HOWARD YOUNG	
Still Strong at Sixty	11
By ARCHIBALD OLIVER	
Black-Powder Smoke	12
By E. A. BRININSTOOL	
The Farrow Rifle	15
By N. H. ROBERTS	
A Good, Easily Made Scope Stand	16
By MAJ. ERNEST C. DREHER	
Wanted: A More Powerful Rim-Fire	18
By DANIEL DEAN	
A Tyro's Thoughts on Pistol Shooting	20
By WILLARD C. POOLE, JR.	
Chasing the Sun	21
By JOHN SCOFIELD	
Two Days—Two Big Bucks	24
By KENNETH FULLER LEE	
A Home-Made Reloading Outfit	27
By E. M. POLK	
Bisley Preparations Continue	30
N. R. A. News Items	35
Dope Bag	46
Arms Chest	57

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POWDER SMOKE

Does Junior Shooting Pay?

QUINCY, Illinois has a new municipal range in the High School—one of the finest indoor ranges in America, built with W. P. A. funds. The project was sponsored by the Quincy Kiwanis Club, and the whole city is becoming “rifle conscious.” It all started through one boy going to a summer camp which the N. R. A. had “sold” on the idea of Junior rifle instruction; yet there are still those who talk loudly about the failure of the American public to take an interest in shooting—and in the next breath criticize the N. R. A. for “wasting money” on a junior program!

Consistent Inconsistency

The Sullivan Law in New York, 'tis said, was passed, not to keep guns from crooks but to keep them out of the hands of the crooks who belonged to the wrong political faction. Upon this naive foundation has been built the most amazing pile of legislation and regulation. The honesty of police and judges outside of New York City being apparently open to question in the minds of the New York City police, a gun permit issued by a police official or judge *outside* of the city is no good *inside* the city until the city police have rubber-stamped it. For years it has been illegal for anyone under 16 years of age to have a rifle—but the Public Schools Athletic League in New York City built ranges in most high schools, and conducted inter-school matches concluding with a city championship at the Brooklyn Base Ball Park. This year the Legislature has made it legal for boys to be taught to handle rifles safely—and the P. S. A. L. has said “no more shooting.” Now a bill has been introduced at Albany at the request of Sheriff James S. Malley, requiring that all *air-rifles*, *spring-guns*, *shotguns*, *rifles*, and *pistols* be registered with the Sheriff of the County in which the owner resides. The Sheriff gets twenty-five cents for each gun registered, the owner gets a receipt, the County and the State get nothing—as does the cause of better law enforcement. New York State has more sportsmen's clubs than any other State in the Union. How much longer are they going to elect persons to public office who are so consistently inconsistent in handling the firearms question?

Massachusetts, Too

Massachusetts is spending considerable money to advertise the State to summer tourists. Historical background provides material for excellent illustrations: Indians, hardy pioneers, the Revolutionary War, “cradle of American liberty”—with the firearms laws in Massachusetts already the worst in America except in New York! Massachusetts had better advertise its firearms laws, or many Americans who believe that the ideals of its pioneer fathers still survive will find themselves inside Massachusetts gaols for carrying one of those guns that made Massachusetts a great, beautiful, and prosperous State instead of a wilderness—Indian-populated and British-governed.

Greatest Summer

Rifle and pistol shooting is headed straight into its greatest season of all time. St. Petersburg, Tampa, and Havana set the pace with their largest attendance. The revival of Pan-American shooting is taking place. The National Matches are definitely assured, months earlier than usual. The Pershing Trophy Team will bring the small bore clan into the international limelight. A pistol match with the British will be fired at Perry following a plan similar to that of the Dewar. Our hosts at Havana, the Cubans, are being invited, as are Mexicans and Canadians, to a real “Pan-American” pistol shoot at Perry. Already more registered small bore shoots are on the schedule than were fired during the whole 1936 season. Small bore rifle and pistol matches are in prospect as a part of the sports program at the Dallas Exposition. The spirit of high sportsmanship is steadily becoming more evident.

Strange Reactions

But with all the progress that has been made in building up public interest in, and acceptance of, our game, we find strange reactions: due to lack of foresight, some of them; plain “cheapness,” others. Those who object to the Junior program, those who wish to see the Association refuse the advertising of reputable manufacturers because they do not make guns or shooting accessories—these lack foresight. But those who drop their membership because they have been allowed to purchase only two Enfields when they want to buy *three*—well, the game will probably survive without them.

The **AMERICAN RIFLEMAN**

MAY, 1937

An Intimate View of Africa

By **ARTHUR HOWARD YOUNG**

I MIGHT start out by saying "Why don't you write," but then I would have to admit two things: first, I have been faithful only to Arthur in my letter writing, and again, there is too much to write about. When I get started I can hardly stop, and strange as it may seem, it has been very difficult to spare three or four hours for a real letter, but now I'm going to give you a dose, and whether you like it or not, you have got to read it—yes, and what's more, you're going to like it.

I am writing as early as 6:30 a. m., and so intent and in earnest that this thing shall be a masterpiece, I am still in my pajamas. This, however, is only to get my eyes open, so I can properly take my bath. Then the real battle starts.

Luck has been more than fair with us. We had a wonderfully cool and pleasant trip to Africa. The Red Sea and other places noted for extreme heat were really very pleasant. At times during this trip 'twas a little too cool. As soon as I set foot on African soil, in Egypt, I saw conditions differently. At Mombasa, again things changed, and when I reached Nairobi, British East Africa, I was very agreeably surprised. Stewart Edward White had told me how he had left Nairobi in 1913—a few people in a miserable town, if it could really be called a town. Now Nairobi is a town of many thousand, with motor cars galore, and one wonders how they do it, or where the saturation point is going to be reached. In Kenya Colony, the autos are 93% American manufacture. Ford leads, with the Dodge being the real "he" little car for the safari work, although mostly Fords are used. The Ford must have a Ruckstill installed (giving additional lower gears) or it cannot be used. Dongas too steep. It makes something representing a real car when a Ford is so equipped. Also, in this rough country, those round or spiral

Editor's Note: In 1925 two noted California sportsmen, Arthur H. Young and Dr. Sexton Pope, both now deceased, accompanied Stewart Edward White, the famous novelist, to Africa in search of new thrills. There they were joined by Leslie Simpson, an American who had taken up permanent residence in East Africa and who is undoubtedly the world's greatest lion hunter.

The hunt over, the three adventurous Californians returned to Nairobi, in British East Africa, to prepare their trophies for the long voyage home. A touch of civilization revived memories of Pacific Coast friends, and Young sent a lengthy report of the expedition's success to one of them. Strictly informal—embellishment was neither appropriate nor invoked—the unparagraphed letter was written in longhand, under date of August 25, 1925. Certainly it is too rare a gem to remain unpublished.

shock absorbers are quite indispensable. [Remember this was written in 1925.—Ed.]

The climate in Nairobi is pleasant for the most part and greatly like some of our fine California weather. The high altitude is responsible, just as the low altitude produces the miserable hot and uncomfortable climate at Mombasa.

The people here are a scream. I love to see the wild, or scantily dressed native. He is graceful, well built, and presents to me a most pleasing and interesting subject to look upon. The minute he gets a touch of civilization, he starts

bedecking himself with the most unsightly and unbecoming clothes, and right here, he loses his charm. One can smell a real native for 60 or 75 yards. A smoky odor, but not at all unpleasant. The Masai have a most peculiar way of standing, and at the same time resting. They stand on one leg, and place the ball of the foot of the other leg just above the knee on the one which they stand. This reminds me of the Masai cattle owners. Their diet consists largely of scorched or smoked milk. It is placed in a gourd and smoked over the smudge made of cow manure.

These natives have the mind of a child, and in our lot of 50 boys, we have had some most interesting characters. I will describe one little Wanderobo (a wild man that lives entirely in the open and eats only meat). We were out in the honorable Ford going to our lion country when we saw a small stream of smoke issuing from a clump of bushes in a small donga. As we approached, we saw an empty camp and four men running as best they could, and the binoculars revealed all loaded to the guards with their personal effects—and meat—principally the latter. Their departure was the result of a law here which prevents the negro from hunting or killing game. This

law is to encourage, or to enforce farming. This camp contained only meat hanging in the trees, and an abandoned pot which was full of meat, cooking on the fire. This is partly to explain why, when a few days later, we saw three of these wild men walking in some thin thorn brush, we headed the car for them, wishing to inquire about lions. All of a sudden they disappeared. We decided they had beat it, so I headed the car to one side, when one head man (native) surprised us by letting out a string of Masai (which is not his native tongue) and looking around, he had the fierce .22 rifle to his shoulder. I then saw three of these Wanderobo rising from a

little company, refused him permission to go with us, saying that he did not know the white men, and did not trust them. The little fellow replied that he was going anyway, as he would get to ride in a motor car, have meat and posho to eat—and receive pay.

He showed us good lion country, had some exciting rides in the car, saw charging lions killed, and no doubt was bewildered with it all. We agreed to pay him one shilling for every lion we killed in the country he took us to. One day we killed two, and later we got five.

The first evening as he came to our camp-fire to squat and chat a little, he was given a string of beads. No doubt he

ing to 3 shillings, or 75 cents. We never saw him again.

About this time I was out hunting with the bow and arrow, and shot a tommy about noon—and hot—at 155 yards away. He ran 150 yards more, made a run in a small circle and went down. A hyena came from apparently nowhere and picked up my prize and beat it. I broke into a run, just as he went over a little hump, and came upon him as he was tearing the insides out of the tommy. The race was then on in earnest. It was nip and tuck, with the hyena doing a little better than I was, but he had to stop occasionally for a rest, which enabled me to gain my lost ground. After I had yelled as loud and with all the meanness that I could muster, I stopped to take a shot at him. I supposed he wondered, "What the h—l—talking to me in that sweet tone of voice then shooting at me." No doubt that any noise sounds like music to their ears as they have the most hideous guttural sounds one ever heard. This shot was made as he stopped to rest at 100 yards. I nearly killed him, and he



Group of African lions in African Hall, American Museum of Natural History

prone position to which they had suddenly flopped.

There was a strong inclination on their part to run but we brought them to us. I suppose they thought us the District Constabulary. They soon learned of our mission, and one little fellow immediately gained our favor and he in return placed great confidence in us. We gave them some meat, and the little fellow had his first look at a motor—also his first ride as he went with us to our camp, agreeing to show us where there were "many lions." He did show us some good country, and agreed to go, if possible, with us 20 miles farther on for a two weeks' hunt. The following day he returned to his own camp (a company of 14 men) to get permission to go with us. The chief, or head of his

got an eye full as he took them, but one would never know that he knew what was handed him. He said nothing, held them clasped in his hand, and gazed out into the darkness for a couple of minutes, then turned away and went to his hut—no doubt to learn all about the present. The native custom is never to show any appreciation. His first introduction to wealth was when a piece of tinfoil from a film was thrown away. A few minutes later I saw it rolled into a round ball about the size of a marble and suspended from the lobe of his ear by a crudely cut piece of tanned leather. Then the empty .22 and .30 rifle shells were collected and when he received his 7 shillings, his wealth and experience were too much for him, and he left and forgot all about his wages amount-

left my tommy. I had run him a half mile and was just about ready to quit as I was about all in. I never heard such a bark as these hyenas have. From a squeak almost like a mouse, to a sub-base, like a big maned lion—and with all sorts of weird notes and impossible compositions. I believe it is a toss up whether I was nearer all-in this particular time, or when I tried to catch three grizzly

cubs on about a 3% grade in through snow.

I have been much amused at times just watching these natives. One can never see, I believe, in any other part of the world, such varied forms of dress and no dress at all. Whatever one's taste dictates seems to give way to what is possible to obtain. The porter, or safari negro's clothes might be nothing, or they might be a small piece of Americano cheese cloth draped over his body as best as can be done. The women wear mostly a piece of sheep or calfskin, and the latter do all the hard work.

When coming into Nairobi the other day, I met many women carrying large slabs of lumber, supported by the same style strap as the Indian headgear. Some women, in addition to these 120-pound

loads, carried their babes at their bosoms in their dress. The women are considered, in many instances, second to the sheep and cattle. Wire of all kinds forms the largest part of the jewelry, and considerable of this heavy brass wire goes on, or the pattern is manufactured right on the wearer, and frequently at an early age, and remains on for life.

The lion business here has been a hum-dinger. We have killed something like 60, and I have personally killed 28 and helped put away 22 others. Of the first 26 we killed, there were 18 honest-to-goodness charges. I am most thankful that I started this lion business under the leadership of Leslie Simpson, whom I consider the greatest all-around shot and hunter I have ever known. His love for the gun, his shooting ability, his sportsmanship and a world of experience over all the years of his life, and his good judgment entitle him, I believe, without question, to be crowned as the greatest hunter in the world today, and if a better one has ever lived, I don't know what more he could have possessed.

**Group of African buffalo
in African Hall, American
Museum of Natural History**

After our first round with a big lion, we changed the firing squad; afterwards I carried a gun. We came upon a big old fellow, followed by 19 hyenas. We stopped 60 yards of him, and on he came. White just grazed his head with the first shot, hardly drawing blood. Simpson followed with his big .577 double, landed in his head—little to one side—the bullet then passing through the chest and out his side. This only made him put on more steam. White made a poor shot, and at 30 feet Woodside shot him through the middle. Might as well have used a squirt gun. This shot was closely followed by Simpson, for whom the lion was going, and at 10 feet distance, while the lion was in the air five feet off the ground, Simpson fired the second barrel of his double, which caught the lion in the center of the head.

I was standing within a few feet of Simpson and saw the lion's head drop down limp, just as if someone had jerked it down with a string. As this shot was fired, Simpson quickly stepped aside and nearly bumped into me. The lion shot through the air where Simpson was standing and landed 10 feet beyond where he

stood when the shot was fired; the lion landed wrong end to. This last shot was the only one that was a stopper, and when Simpson jumped over near me, he looked me square in the eye, said nothing, but I understood. After that I carried Simpson's Winchester .30 Gov. '06.

Simpson for ten years shot a .405 at lions, but gave it up and went to the Winchester .30 Gov. '06. He wore one out, and the second one, which I bought of him, I am taking home with me. He killed 40 lions with it, and I have killed 25 with the same gun. Also a rhino and a big buffalo, which I will describe later. Simpson, when I asked him what gun he preferred in Africa, aside from his big

grain Selous bullets; a .22 l. r. rifle to kill small game and meat for camp; and possibly a double express rifle. But unless one is going to go in the bush or gets in too close on the biggest game, I doubt whether I would have a double, regardless of the fact that they are much used and are the real stoppers, especially at close range.

With a smaller gun, one must shoot—not just slobber them. You have never seen me shoot a rifle, and my favorite is the old lever-action Winchester Model 95, as it is Simpson's favorite also. I have had to shoot both straight and darn fast on more than one occasion, and at the end of more than one mixup, I have felt of



.577 double, and what he would buy if again buying a new gun, said, "This same gun—Winchester Model 95 shooting the .30 Gov. '06 cartridge loaded with the 220-grain Western bullet with slightly exposed lead point."

A bullet surely must deliver the goods on the frontal shots of a charging lion or other dangerous, soft-skinned game. A lion is hard to penetrate in the front, and the only reason he will stop when he starts his charge is his physical inability to go farther. Courage? A bullet that does not put him out instantly seems only to make him more determined, and he simply takes it and keeps on coming full steam ahead.

Personally, if I were to come to Africa again, my whole artillery would consist of a Winchester .30-06 Model 95, with 220-

my pulse to see if there was anything to indicate any unusual physical condition as I could not detect it otherwise. My pulsation was practically normal. This has pleased me, for this lion business, as I have run into it, is a ticklish one. One time I ran into ten, another time fourteen, and both times 40 and 50 yards away. The ten got nasty and I stood perfectly still, and the tail lashings of four of them told of a near charge—all lionesses. The fourteen were also most all lionesses, and the males not good enough to shoot.

One day Leslie Simpson, Doc Pope, and I went out for a shoot. White took a walk in another direction. As we were nearing our hunting ground, we saw a lioness trotting along, so Simpson pulled the Ford around and tagged after her.

As is the lion's custom, she rather refused to admit that she was at all concerned about us, yet at all times she knew what was going on. She rambled on for a quarter of a mile and by that time we had pulled up to within 35 yards of her. As she slowed down to a walk, Simpson had nearly stopped the car and Doc was just stepping out of the car. Without any warning or even stopping, she whopped quickly around and charged at full speed, such as is usually done during the last 25 yards or so of a good charge. At this stage of the game, Simpson turned the car and headed directly away from her, at the same time stepping—and standing—on the gas. His heavy double was strapped on the front of the car to a flat rack where the windshield was taken out.

I immediately got busy and let drive with the Winchester .30-06 from the low box body, out over the back end. This body is so low that with a little effort I could step into it from the ground. No doubt, as you know, the only way to shoot with any semblance of accuracy out of a car over rough ground is to swing it up and snap shoot. All the gun does is to swing up in a comparatively straight line. The first shot just grazed her head. This was at 30 yards. I don't think I am any slouch at speedy rifle shooting, for a reload without removing the rifle from the shoulder, but by the time I had slammed one in and had the muzzle of my gun pulled down, she was coming in pell-mell close to the car, and on the next swing of my gun I caught her in the air ten feet behind the car, on her last jump before the one which might have been interesting, for she was well up off the ground and appeared to me to have a most searching and determined look on her face. The bullet cut a groove through the hair on the side of her face (to the skin) and I found the largest part of my bullet in her heart. This was a 180-grain open point Western.

During our lion game with the arrows, at least a half dozen charges were stopped close up; a couple within ten feet. I must tell you of an interesting incident. As we were returning to camp we saw a member of the cat family running for cover. The gunbearer and White said "chetah"; Doc Pope and I said "leopard." I pulled the car close to the patch of aloes (sort of dagger cactus) and brush, which was about 40 feet square. We rocked, clubbed, and shot up with the .22, every part we could reach. We felt sure he had not gone out, for I drove up in such a position that we could well see what was going on.

Finally, we decided to back the car up and gas or smoke him up. It now looked like a chetah for a leopard would ordinarily have let out a growl and started something. This same morning, before leaving camp, our boy had put by mistake a can of coaloil (paraffine here) in the gas (petrol here) tank. The running was

nothing extra, as you might guess, but such wonderful smoke that was created you never could guess. The car backed up, the smoking-out process was good right from the start, but the results were nil. We began to think we had either made a shot with the .22 that had accidentally hit him or that we had gassed him.

Finally we quit the job, and when 200 yards away, going home, Doc Pope happened to look around and saw him run out and into another similar patch 100 yards from where he had been. We wheeled around and gave him another try. Rocked, clubbed, and shot up again with the .22, but got no results. It looked more all the time like it was no leopard; so I finally volunteered to walk in through this patch on an old dead limb four feet off the ground, and look it out, but before I did this our gunbearer with White's Springfield (extra gun) in one hand and a big club in the other, walked right up against the aloes and in a careless and indifferent manner slammed the brush. He had hit the right place and immediately he was rewarded with a growl and tearing round in the brush by the leopard, but it was too thick for him to come out where the native had stood. However, the gunbearer half stopped and fell backward, and at the same time let the Springfield off—just stuck it out in the air. In a couple of seconds he came out on my side on the run and I had a leopard. Another leopard that I had shot earlier in the game was being worked from a brush patch, and he charged us. Simpson, White and I all took a poke at him at 12 feet as he came out at us.

Our last two weeks were spent at a good spring of water where there was little game, a few lions, and a small scattering herd of buffalo. A month before I had, while returning from Nairobi, shot a big buffalo bull, having gotten up from the breakfast table to do so. I got good blood, returned to breakfast, finished an hour's packing, then went to further investigate the effect of the shot. "Buff" had gone in the brush 20 feet, had lain down bleeding considerably, then left. I followed in a short distance—about 20 yards—then scanned the brush ahead with my glass. Suddenly 40 feet away from behind a thick clump of bushes, which would cover him up while lying down, he raised up and presented a big black mass behind a screen of green foliage. I motioned the three negro boys with me to beat it, for if there was going to be a mixup I wanted all the room, of which there was little in the nasty thorn brush, to myself. Just as I put up my field glasses to determine which was head or tail, he tore off through the brush, and such a noise as they can make. Here I was lucky that he didn't do the usual thing, when wounded, and charge. Lo, when we came back to this same place, I still had buffalo on the brain.

Hunting this beast often represents many days of patient hunting and waiting. I had one big old bull spotted and knew his range. He was so big he could hardly walk. One morning when I was maneuvering to get at him and walking close to the thick brush, all of a sudden I heard a bang and crash, and 60 feet away (all distances measured) two buffalos came tearing out of the brush. One swung to my right, the other straight for me. I didn't believe it a charge regardless of the fact it looked much that way, so I stood stock still to see what was going to happen, for if it was not a charge, I didn't want to make it one. At 40 feet I noticed the buff turn slightly, and he ran 27 feet from me as he passed. As he was passing, I quickly glanced under the belly and a large bump was there, indicating ordinarily a bull. I let him get 20 yards past me and 20 feet yet to go to be out of sight, then I slammed in two shots while he ran this 20 feet. Found him piled up in the donga 50 yards away. Found I had killed a cow with unusually fine horns, and the bulge I saw under the belly was a hernia three inches long and a couple of inches in diameter. One bullet was in the shoulder, the other two in chest from the heart.

I still wanted a bull. Next day buffalo moved one-half mile. I located them, and the following morning, besides myself, three lions were also on the job hunting them. I heard their settling-down, location grunts as they stationed themselves for the day and preparatory to the evening hunt. I quit this bunch and the following morning went up to the donga where one of our boys had seen a good bull the day before seven miles from camp. I worked out the bed of the river (so-called here) and finally saw him lying down, but it looked in the darkness in a heavy brush as if he was standing in a depression. He was 35 yards away. My first shot broke his shoulder, and as he turned and ran sideways I put two more within four inches of his heart, then he charged. Next shot entered his nose, headed through the heavy, porous substance for his brain, but evidently did not reach it, so the skinner reported, and my next shot, as he was coming, landed at the base of his horn in front, and the bullet entered his brain. This was a 39½-inch head.

In the afternoon the other two fellows wanted to go out and shoot something. One had a .250-3000 Savage; the other had a 9 mm. Mauser, I told them I knew where a couple of impalla hung out. We went out, and as we neared the spot one of the boys shot at a wart hog. We walked on 100 yards farther; I looked over the country a couple of minutes, and immediately returned on the same trail we had been over. When we were within a few feet of the spot from which he had shot at the pig, and walking quietly along, I

(Continued on page 34)



Still Strong at Sixty

By ARCHIBALD OLIVER

RECENTLY the writer came into possession of a Greener 10-gauge shotgun that is known to be at least sixty years old, and, like the guns of that time, is equipped with stub Damascus barrels—in this case 32 inches long. The gun has the Greener triple wedge fast bolting, with Greener cross bolt and double under lugs, and Greener side safety. The stock, of Circassian walnut, has a length of 14 inches, a 2-inch drop at the comb and 3-inch at the heel, and a pitch of $3\frac{1}{2}$ inches, all of which seems excessive. Although the gun weighs $10\frac{1}{2}$ pounds, it seems perfectly balanced. The photographs give a better idea of it than words can.

This gun was built at a time when black powder was the only propellant, but as black-powder loads were not carried in stock by many of the hardware stores here (only one having some of them—Remington New Club with 4 drams of powder and $1\frac{1}{8}$ ounces of Number 4 shot), in order to make a fair test of the gun the following smokeless-powder shells were used:



Winchester Speed Load, with $4\frac{1}{4}$ drams of powder and $1\frac{1}{4}$ ounces of BB shot;

Climax, with $4\frac{1}{4}$ drams of powder and $1\frac{1}{4}$ ounces of Number 6 shot;

Climax Heavies, powder charge not given, charge of No. 5 shot not given. (Two shells were opened: one contained 285 shot pellets, the other 289.)

Before shooting, one shell of each kind was opened, and the number of shot counted. There were 60 BB shot, 256 No. 6 shot, and 149 No. 4 shot, in the corresponding shells.

Many farms in this locality (Lawrence, Kansas) are posted against shooting of any kind, but Dr. A. S. Anderson invited me to accompany him to his farm one afternoon, where he planned to sight-in a new scope on a .270 Winchester, and here I had an opportunity to test the Greener. A wooden framework arranged to hold sheets of wrapping paper 40 inches square was put up at 40 measured yards, and work was begun.

Until the writer owned this Greener gun he had done no shooting with the scattergun, but had used the rifle and revolver altogether. Therefore it was Doctor Anderson (who is a crack shot with the shotgun) who did the actual testing. Three shots were fired with each load from each barrel. The shot covered the whole paper fairly well in each case, but the heaviest pattern centered fairly well around the middle of the 30-inch circle that was drawn around the densest portion of each pattern. The averages are given here:

Winchester Speed Loads: left barrel 35 shot, right barrel 29 shot;

New Club: left barrel 90 shot, right barrel 75 shot;

Climax Heavies: left barrel 170 shot, right barrel 140 shot;

Climax: left barrel 152 shot, right barrel 126 shot.

From these patterns it is seen that the gun is 60 per cent in the left barrel and 50 per cent in the right, and the man from whom I purchased it—and others who had had it before him, say that they got about the same patterns.

The heavier shot gave the smoother patterns, and it is reasonable to believe

that this gun was bored for the heavier shot and intended chiefly for duck and goose shooting. However, the patterns were all killing ones, and game within any distance up to 40 yards would be brought down if the man behind did his part.

Because the gun was 60 years old we tried it out at 60 yards—with these averages:

Winchester Speed: left barrel 12, right barrel 9;

New Club: left barrel 33, right barrel 26;

Climax Heavies: left barrel 72, right barrel 65;

Climax: left barrel 70, right barrel 59.

Some persons who had owned this gun before—it has changed hands many times while in Lawrence—thought it was a 60-yard gun, but these results would indicate that at best it is nearer a 50-yard. Several shot were seen kicking up dust to each

(Continued on page 34)





Along the banks of this stream I could usually get a shot at a woodchuck

Black-Powder Smoke

A Gun-Hungry Kid of the Early '80s Speaks Up in Meetin'

By E. A. BRININSTOOL

AS I look back over the past 65 years I cannot remember the time when I was not only "interested in" firearms of all kinds, but actually "dippy" about them. Every time I saw a man going down the street with a gun on his shoulder and a dog at his heels, I knew what it meant. If possible I would always stop the hunter, just to see what sort of a gun he carried. It was usually an old double-barreled muzzle-loader, and he carried a shot pouch and a powder horn under either shoulder, and a box of "GD" caps in his pocket.

As a youngster of five years I became further interested in stories of those noted and mighty hunters of Kentucky, Tennessee, and what was then "the border." The hair-breadth escapes of Daniel Boone, Davy Crockett, the Wetzel Brothers, Simon Kenton. The "Black Rifle", of Middle Pennsylvania renown following the French and Indian war—all this served to whet my appetite for firearms.

About that time I began further delving into the history of the Mighty West—the Plains country. Old Jim Bridger, the most famous frontiersman, guide, scout, hunter, and trapper that the old West ever knew, was my "ideal". There were plenty of others—men "with the bark on", who never met an obstacle in their adventurous careers that they could not overcome.

What wonderful men they were! And their like will never again be seen in America. Peace and God rest them, wherever they are now encamped!

My father was one of the best-known merchants in the county where I was born and "brung up"—Western New York, between Buffalo and Rochester. He conducted a grocery and crockery business. In those days all stores of like character handled powder and shot. In the rear of our home my father built a small "powder house" wherein he kept stored several 25-pound cans of various brands of black powder for use in shotguns and rifles, as well as blasting powder. It was an event of great importance in my small life whenever Dad would open this little powder house to replenish the stock at the store, and give me a "peek" at the inside. I recall that it was lined with tea-lead, was set up on stilts about 3 feet in the air, and was kept under lock and key rigidly.

One day while rummaging around the cellar of the store, my younger brother and I unearthed a "real find." It was an old long-barreled muzzle-loading gun that had probably seen service in the War of 1812. How it came there neither my dad nor any of the clerks knew. Of course we immediately requested Dad to let us have the old gun to play with. The lock was missing,

so there was no danger that we might blow our heads off. The old gun was so heavy, and we were so small, that it took the combined strength of both of us to lug the old fuzee home. We "played Injun" with that old weapon a long time, and finally took it to a blacksmith and had the barrel cut down to a foot long. This we mounted on a block of wood and used it as a cannon for Fourth of July occasions. Needless to say, Dad's powder house furnished its quota of the black stuff to further the cause of Independence Day and disturb the neighborhood at midnight of the third. The brands of powder which Dad sold were Lafin & Rand Orange Rifle, Hazard's FFg and Fg, and a brand of blasting powder which I do not recall.

My father was not interested in firearms to the extent of doing any shooting or hunting himself, and of course I did not dare to beg him to buy me one of the small "Flobert" rifles then on sale in .22 caliber. These were foreign-made weapons. "Doc" Bartlett, the town dentist, had one, the extractor of which was a part of the hammer. After firing, the hammer was pulled back, which extracted the fired shell. Another Flobert rifle had what was known as the "Warnant" action. The breech block was carried on straps which were pivoted at their forward ends on each

side of the barrel.

It was considerable of a treat to me when "Doc" Bartlett would get out his little Flobert and initiate a bunch of us kids in the art of shooting. A schoolmate of mine, Fred Cronkhite (now a prominent dentist of St. Joseph, Mo.) whose father operated a grist mill in the town, also had one of these Flobert rifles, and would often condescend to let me take it outside the mill and fire at a target, or range up and down the creek shooting (at) blackbirds, using .22 Shorts.

In those days there were little .22-caliber pellets sold which were known among the shooting fraternity of my community as "nudgets." They contained nothing but fulminate, shot a round bullet that was not greased, and were much shorter than .22 Shorts. They came in pasteboard boxes holding 50 and 100 rounds. They were much cheaper than Shorts, and were used a great deal at country fairs, where hastily constructed shooting galleries were much in evidence. The proprietors would offer "three shots for a nickel or six for a dime." A loud-voiced barker could be heard all over the grounds beseeching men and boys to "Step up, Gents, 'n' try your luck with the little gun!"

By the time I was fourteen or fifteen years of age I had acquired gun catalogues from every concern in the United States, I verily believe. Prominent among them were catalogues from the Great Western Gun Works of Pittsburgh; the John P. Lovell Arms Co., of Boston; Salem G. Le Valley, of Buffalo, and "Old Man" McCulloch of Rochester. There were many, many others, but their names have escaped me. Of course I had Winchester, Marlin, Ballard, Bullard, Frank Wesson, Colt, Sharps, Maynard, Remington, Stevens, and undoubtedly every other rifle-maker's lists. I was not so keen about shotguns then, but the L. C. Smith, Lefever, Baker, Parker, and Remington catalogues could be found in my "gun box."

The first gun which was "really mine" I have told about in a previous article in *THE AMERICAN RIFLEMAN*. Briefly, it was an antiquated firearm which had belonged to my great-grandfather, and was presented to me by my grandmother, who

lived in a town 25 miles distant. I lugged it home on horseback, riding my Indian pony over there to get the old gun. It had about a 16 or 20 bore, and had a single barrel about 40 inches long. I had great sport with this old weapon until I acquired more efficient arms.

When about sixteen, I made a dicker with a fellow in town for a .38-40 Winchester, Model 1873, also acquiring a reloading set. With Dad's powder house handy, I did not stint myself in the use of reloading material. Black-powder primers were cheap—about \$1.00 a thousand, so my shooting cost me very little. The only decent sights on the market then were the Lyman, and these were practically limited to an ivory or gold bead front sight and their fine peep sight. The latter retailed then at \$2.50, and the others at a dollar or slightly less. As cash was shy with me I had to content myself with home-made front sights manufactured from a bit of printer's brass rule, or be satisfied with the regular stock sights put on the gun at the factory. These latter were always a Rocky Mountain front sight and a "step" rear sight, also known as a Rocky Mountain sight. We boys did plenty of "monkeying" with our sights in those days, trying to get a front sight which would not "shine" or reflect light. We got around that trouble a good deal by smoking the front sight when out on the warpath after woodchucks.

It was not until I was two or three years older that I became possessed of the best old rifle I ever put to my face. This was a .32-40 Union Hill Ballard, with a half-octagon barrel 30 inches long fitted with a hooded front sight carrying a spirit-level and using various-sized and shaped aperture discs. The rear sight was a long mid-range Vernier peep, adjustable by means of a small screw. This rifle was

heavy iron target weighing several hundred pounds; and after acquiring permission from a farmer on the edge of town to maintain a range on his land where there was a high bluff to stop any refractory bullets, we were ready to shoot against the world.

Of course we reloaded our own ammunition. Hazard's FFG powder seemed to be the choice of most of us. There were no smokeless powders on the market then, but just the same we did some remarkably good work with our home-made loads. Our reloading tools were the Ideal sets, and of course there was but one bullet mould, so we could use but one weight of bullet. I don't think any of us ever thought of testing out bullets of different weights, and powder charges of various kinds. We just poured out the powder into the little cup which came with the set, tapped the shell to settle the powder, dipped a bullet into the lubricating material (beeswax and beef tallow), and seated the bullet. We carried our loaded shells in Mills woven cartridge belts—the finest belt ever manufactured. They were thus kept clean and bright, never corroded, and we had no trouble with a shell sticking in the gun.

I'll never forget the time a bunch of us shooters started down into Potter County, Pennsylvania, on a deer hunt. The boys all took their Union Hill Ballards. At a point where we had to change cars, and wait an hour or two for the train to Coudersport (I believe the station was Port Allegheny), some fellow was holding a turkey shoot. After watching the game for a few minutes "Newt" Wells remarked to me, "Brin, let's get out our old smoke-poles and show this bunch of rubes how to win a turkey."

"Suits me," I said, and we proceeded to get out our equipment. There were nine

beautifully finished, with a checked fore-end and pistol grip, cheekpiece, and nickel-plated Swiss buttplate. We used no sling-straps in those days.

Most of the shooters in my town also acquired Union Hill Ballards, but they chose .38-55 caliber. We formed a rifle club, and had cast at the local foundry a



Old stone fences along a country road were good places for woodchucks

in our party. Most of the other shooters were local nimrods armed with repeating rifles, poorly sighted, and mighty few birds were being taken by them.

"Step right up, you fellers—ten cents a shot!" exclaimed the proprietor. "What's them guns you got there? No telescope sights allowed, you know."

We assured the yokel that none of our rifles carried telescope sights, but the crowd surged about, curiously examining our up-to-date weapons and asking all manner of questions; and it was some time before we got down to business. The distance was about 200 yards, and the "bull" a 9-inch ring. Anyone getting in the bull won a turkey.

It required the expenditure of two or three shots apiece before we had our sights set to our liking. Then "Brad" Gallett stepped to the mark, fired one shot, and won a turkey. He promptly retired. I followed, but my bullet did not cut into the ring far enough to win a bird. "Newt" Wells followed me, with a ball placed as near the exact center of that 9-inch ring as it could possibly have been. Andy Powell, Lew Catlin, Marsh Richards, and Wallace Graves, shooting in succession, each won a turkey. Never was there a more discomfited or sorrowful-looking turkey-shoot boss than that one!

The local nimrods simply looked agape. Never had they seen any such shooting as that. To make a long story short, our shooters cleaned the old fellow out of all of his turkeys; and then, to prove they were good sports, they accepted their money back and returned the man all his turkeys. We could not have carried them with us, and we only wanted to have a little fun while waiting for our train.

To go back a few years, at the time the Stevens people brought out their little "Favorite" rifle in .22 and .25 rim-fire, I sent for one of the latter. It cost \$8.00, and was one of the best little woodchuck guns I ever owned. I often took it on long hikes where the ten-pound Ballard

would have been heavy and cumbersome, and it never failed to "bring down the bacon." The ammunition was rather expensive—around a cent a shot, as I recall.

There were more Stevens rifles used at shooting galleries in the early and middle '80s than all other makes combined. They were extremely accurate. They had the tip-up action, of course. There were no repeating rifles of small caliber—aside from the '73 Model Winchester in .22 Short until the Colt people brought out their .22 "Colt Lightning Repeater." This was a fine little arm.

Using ten of these little Colt repeaters, "Brad" Bartlett, a friend of the writer's, at the Buffalo State Fair in 1889 broke the world's record at glass balls tossed into the air from a distance of fifteen feet from the shooter. The former record, held by the great "Doc" Carver, was 60,000 balls in ten days, shooting ten hours a day. Bartlett not only broke Carver's record, but went him more than 4000 better,

company could not compete with the Winchester people, whose lever and fore-end-action repeaters retailed then at \$18, while the cheapest gun the Burgess Company turned out sold at \$40. After a couple of years the Burgess people either went broke or closed down.

Occasionally one can pick up one of these fine old shotguns in a pawnshop. Their barrel boring was all done by an old man 70 years of age named Bugbee, whom the company secured from Springfield Armory. That old fellow sure knew how to choke-bore shotguns! I tested and targeted the guns with black-powder loads, the targeting being done at 40 yards on a 30-inch circle. The powder charge was $3\frac{1}{2}$ drams, with $1\frac{1}{2}$ ounces of No. 8 shot. All guns were required to shoot not less than 340 pellets into the 30-inch circle. If any did not, old man Bugbee cursed it high and low, and ran his set of reamers through the barrel until it did. Needless to say, I got all the shotgun shooting there

that I wanted. But it was grand fun for me—then! "E C" smokeless powder was just coming into use, but we were a little afraid of it there at the factory. But to get back to the Old Home Town shooters.

There were quite a few noted hunters in my section: Charley Baker, John West, a Civil War veteran; Billy Campbell, Lou Smith, "Curt" Phelps, Frank (Cutie) Wilkinson, and several others who did not belong to our rifle club. This John West was quite a character. He

was an expert rifle shot, and every Saturday afternoon, if the weather was favorable, in the summer time, he would trundle an iron target, his .22 Ballard rifle, and a stack of ammunition down to a location right on the main street, at one side of the Bingham Hotel. There he would set up his target and "bid" for customers, picking up quite a bit of coin. A flock of pigeons used to roost near the chimney of a building across the street, and it was a common feat of old John's to shoot the

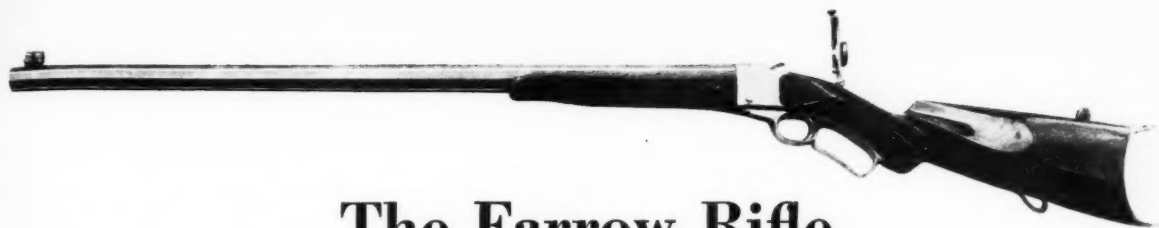
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Typical Western New York scenery near the boyhood home of the author

shooting at 64,017 balls (about that number) and missing less than 500 in all. He ran a "straight" one day of about 200 without a miss. He used .22 Shorts entirely.

In 1894 Bartlett was a traveling expert-shot demonstrator for the Burgess Repeating Arms Company of Buffalo, where I myself worked as inspector and tester. I tested and targeted every gun they turned out. They made a repeating shotgun with a sliding-pistol-grip action instead of a fore-end or lever action. It was a marvelous shooting gun, but the



The Farrow Rifle

By N. H. ROBERTS

THE late W. Milton Farrow was born in Belfast, Maine, on April 18, 1848, and died at West Palm Beach, Florida, on July 15, 1934, at the age of 86.

During the Centennial Year 1876 Mr. Farrow chanced to read the scores of the American Rifle Team in the International Match near Philadelphia, and remarked to his brother that he believed he could "shoot a rifle as well as most of those gentlemen." His brother replied, "Why don't you try?" Acting upon this suggestion Milton at once ordered a Ballard Long Range rifle, and commenced practicing at 200 and 500 yards. He proved so apt and became so skilful that in his first long-range match at 800, 900, and 1000 yards, shot on the old Blackstone Rifle Range near Providence, R. I., on October 4, 1876, he won first prize, with a score of 86 out of a possible 105, which was considered first-class shooting in those days. In this match Mr. Farrow competed with many of the most expert riflemen of the day, such as F. J. Rabbeth, N. Washburn, H. Jewell, and George Davidson.

In the spring of 1877 Mr. Farrow went to New York City as an employee with the agents for the Ballard rifle, to learn the rifle business. During the summer of that year he won the National Rifle Association first prize in the long-range match on the old Creedmoor Range—15 shots each at 800, 900, and 1000 yards—with the score of 203 out of a possible 225, in competition with most of the noted riflemen of that time.

In June 1878 Mr. Farrow won the King's Medal in the Sharpshooters' Union Schuetzenfest at Union Hill, N. J.—60 shots at 200 yards offhand—with a score of 1049 out of a possible 1500. Also in the autumn of that year he competed in the National Rifle Association match at Creedmoor, and won the Championship Medal and the title of "Champion Rifleman of the United States." Thus

it will be seen that in two years Mr. Farrow, starting as an unknown and inexperienced rifleman, won his way to the very top as an expert rifleman.

He went abroad in July, 1878, and won honors and medals in England, France, and Germany. Again, in the spring of 1880, he was one of the three men selected by the National Rifle Association to represent the United States in the International Match held at Dollymount, Ireland. In this match Mr. Farrow and Mr. Milner of the Irish Rifle Association each scored 49 out of 50 with 10 shots at 800 yards, and in shooting off the tie Farrow won, and captured the Spencer Cup. He then attended the British National Rifle Association matches at the famous Wimbledon Range, where he won the Albert Prize of 100 pounds sterling, and the noted Wimbledon Cup. In addition to the above, Mr. Farrow also won a number of other important rifle matches in France and England, with very high scores for those days; scores that in fact are high for even our modern high-power rifles and our present-day riflemen.

When I first met Mr. Farrow he was using a Ballard .38-55-caliber rifle for his offhand shooting, and a .40 or .45-caliber Ballard for long-range work; and he remarked that he considered the Ballard rifle the very best arm then made for target work at both short and long range, but that he was engaged in perfecting a rifle

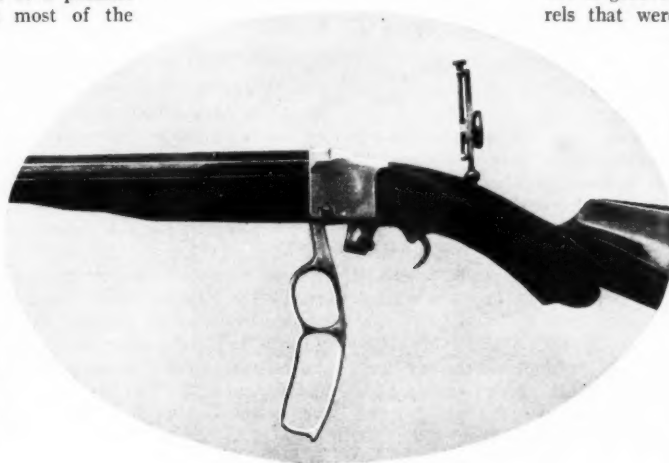
which would prove even better than the Ballard. However, several years passed before he finally finished his rifle and got it patented.

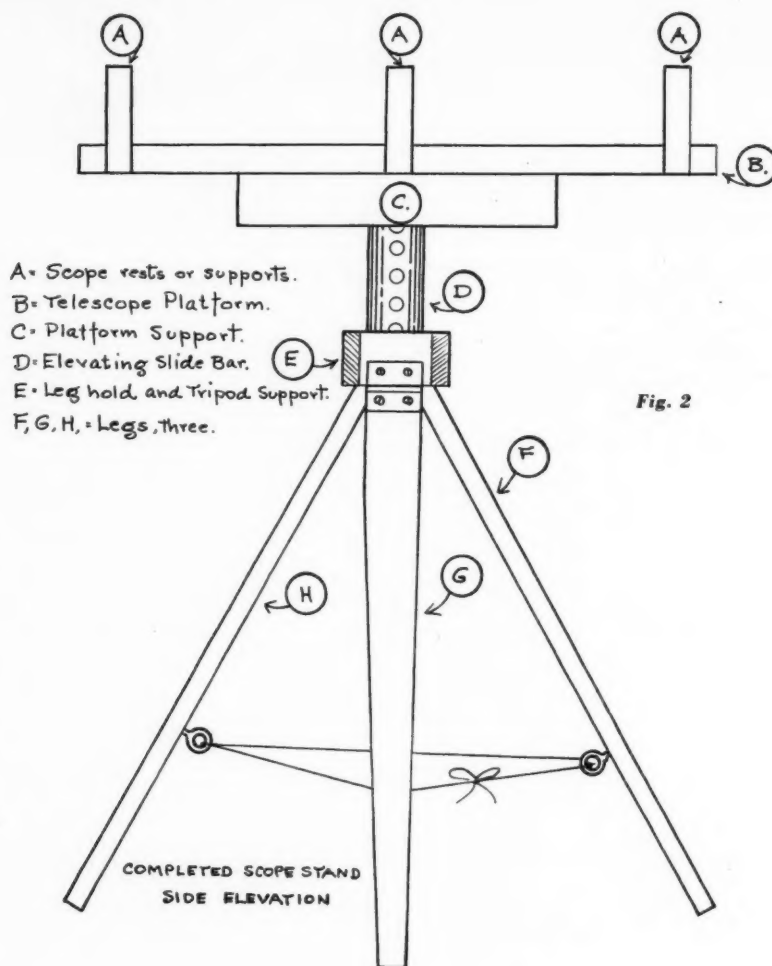
The U. S. Patent Office records show that the first patent on the Farrow rifle was granted on October 14, 1884, a second patent being issued October 25, 1887. The rifle was first made in Mr. Farrow's small shop at Morgantown, West Virginia, where he lived for several years. Later he moved to Washington, D. C., where he resided for fifteen years and manufactured the Farrow rifle.

Mr. Farrow claimed that his rifle contained the *smallest number of parts* of any single-shot rifle then on the market. The action was much stronger than that of the Ballard, was made from the very best material obtainable in those days, and the workmanship on the arm was of the highest quality throughout. His barrels were noted for their fine accuracy. I believe that this rifle was made on two different types of action, as I have seen Farrow rifles with hammerless actions. However, it may have been that these hammerless actions were not made by Farrow, but were merely fitted with Farrow barrels. All the Farrow rifles that I have seen of late years have had the type of action that is shown in the illustrations herewith. It is well known that at different times Farrow made barrels with various types of rifling and number of grooves. I have seen Farrow barrels that were cut with six, eight, and sixteen grooves, but the sixteen-groove barrels did not prove as accurate as those with six or eight grooves.

The action of the Farrow rifle was of the falling-block type, the breech-block being somewhat similar to that of the Winchester S. S. It was so constructed that the block had a slight rocking motion, and came up tightly against the head of the cartridge when the action was closed. In this respect

(Continued on page 33)





A Good, Easily Made Scope Stand

By MAJ. ERNEST C. DREHER, N.Y.N.G.

THE rifleman who has a tool chest and likes to make his own gadgets, can make a very sturdy telescope stand that will not waver in a thirty-mile wind, will hold the bullseye perfectly at all times, and costs not more than fifty cents for materials. All that is required is three 1-inch brass hinges, with screws, which can be bought at any five-and-ten-cent store; a 3-foot length of half-inch plywood 3 inches wide; a piece of hardwood board 12 inches long, 2 inches wide, and 1 inch thick; and a cylindrical piece of hardwood 1 inch in diameter—to be bored crosswise with quarter-inch holes at 1 or $\frac{1}{2}$ -inch intervals, as required.

First we will fashion the three legs, each 1 inch wide at the top and tapering to $\frac{1}{2}$ inch at the bottom. These are made from the $\frac{1}{2}$ -inch plywood, and are 12 inches long (see Fig. 1).

Now we make the leg hold and tripod support (Fig. 1), which is the most difficult part of the whole job; and care should be used to see that all legs have the same angle of spread. Out of

1-inch hardwood, cut a disc 2 inches in diameter, and lay out the three flats, equally spaced, as shown; then saw to shape, so that a leg can be hinge-fastened to each flat. In the exact center, bore a 1-inch hole to receive the Elevating Slide (Fig. 1), bearing in mind that the slide should fit snugly and without wobble. As a matter of fact, you are less apt to split the 2-inch disc if you bore the hole before cutting the disc out from the board.

Next we tackle the telescope platform and the three scope rests. The platform is 12 inches long, 2 inches wide, and $\frac{1}{2}$ -inch thick. In each edge, at the ends and in the middle, cut notches $\frac{1}{2}$ -inch wide and a trifle over $\frac{1}{2}$ -inch deep, as shown in Fig. 1. Each scope rest is 2 inches square and $\frac{1}{2}$ -inch thick, with semi-circular cut-outs at the top to fit your favorite scope, and notched out at the bottom to snugly fit the telescope platform. The cut-outs at the top can be V-shaped instead of semi-circular, and will then fit any scope.

We now come to the platform support, which is a solid piece of hardwood 2 inches wide, 6 inches long, and 1 inch thick. Into the exact center of this, bore a 1-inch hole for the end of the elevating slide bar, and then fasten the platform support permanently and securely to the telescope platform, using either four screws, or dowels. Dowels are preferable because they look better and make an easier job.

Lastly we come to the elevating slide bar, which is the 1-inch-round piece 8 inches in length. This should fit snugly into the hole in the platform support, but should slide easily through the hole in the leg hold and tripod support. To assemble the stand, first fit the three scope rests into the notches in the telescope platform, and with a small strap secure the scope in place. Then fix the elevating slide bar into the hole in the platform, and put the other end through the hole in the leg hold and tripod support—and you are ready for sighting-in.

To give added support and steadiness, fix three screw-eyes into the legs, on the inside, and pass a string through them, as shown in Fig. 2.

This scope stand weighs very little, and when dismantled takes up surprisingly little room. Less than twenty seconds are required to assemble it or take it down, and it can easily be carried in any shooting kit. The total cost for wood, hardware, etc., is less than fifty cents, although if desired it can be made of beautiful hardwood, finely finished, when it will look like a costly article. Not more than two hours need be employed in its construction.

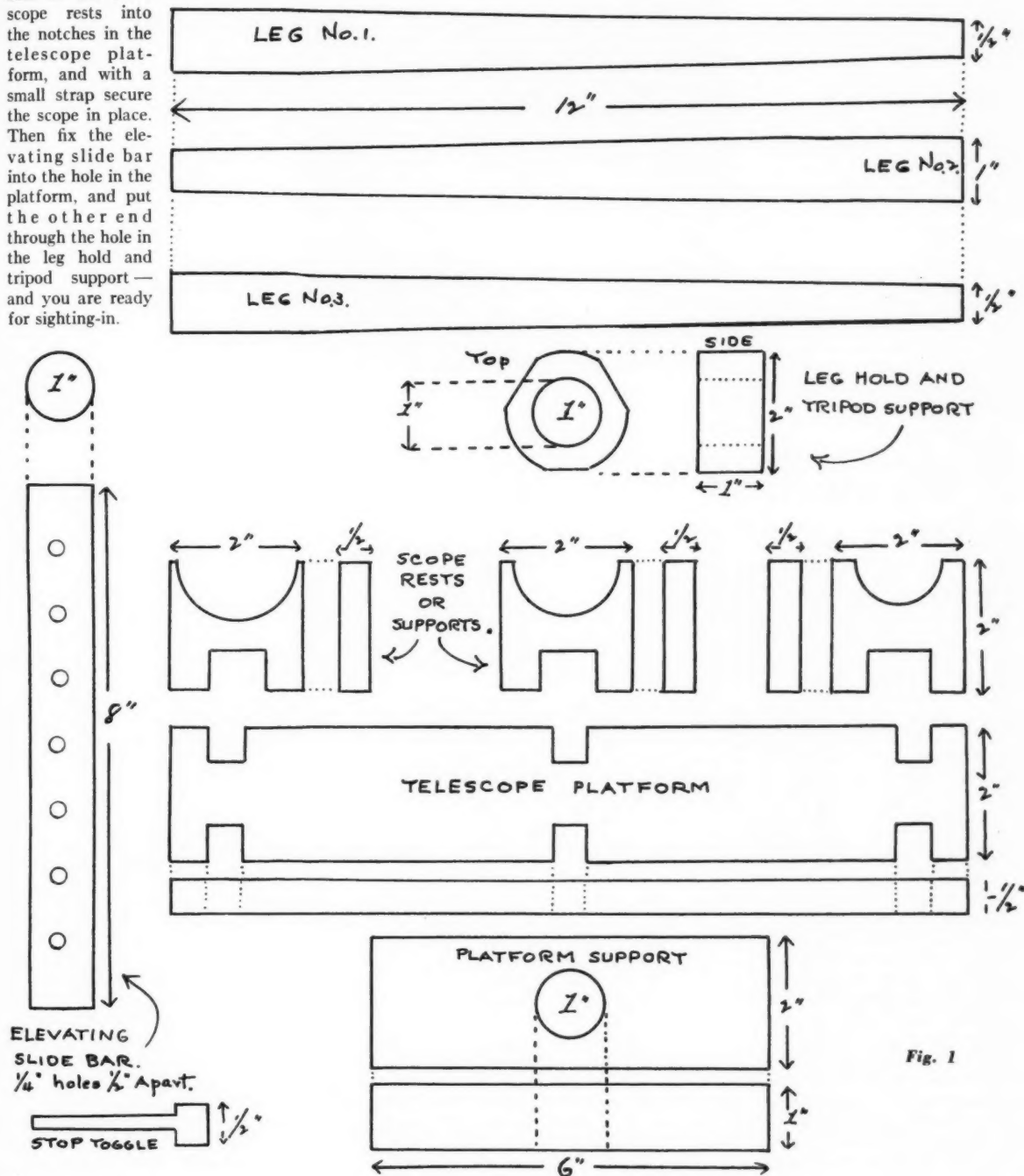


Fig. 1



Wanted: A More Powerful Rim-Fire

By DANIEL DEAN

WHY do I spend so much time reloading Krag, Russian, and .30-'06 cartridges with light bullets and powder charges? Partly because the inventive urge to some extent lies in each of us, and finds a real satisfaction in reloading; but there are two stronger reasons. First, I reload to save money. Through the long depression years few of us had enough money to shoot as much as we wished. Even now when depression is lifting, we are yet far from the old spirit of spending which was so great a factor in producing first a crazy prosperity and then an equally insane panic. My second reason is to get a load that I and my neighbors are not afraid of. I want a load that will not endanger either stock or people in the next county if the bullet goes on over the hilltop. And even the noise of the high-power rifle is objectionable to many, and does not add particularly to my own pleasure.

We shooters who live in more or less settled regions (and there are millions of us) often find it impossible to obtain a factory-loaded cartridge that will do for us what our light reloads in military cases will; for between the present rim-fire

cartridges on the market and most of the expensive center-fire cartridges there lies a great gulf, and often the specifications of the load you and I want and can pay for go over into that gulf. Why is it?

For seventy-five years center-fire and rim-fire cartridges have developed in opposite directions: one has gone up in power, the other down. The first breech-loading rifles were largely rim-fire. The .56 Spencer and .44 Henry repeating rifles made history in the Civil War when the boys in gray with their muzzle-loaders had to stand up against "those new damn Yankee guns they load on Sunday and shoot all the week." That big .56 Spencer cartridge would make our present .22 enthusiasts gasp. The early breech-loading revolvers were mostly rim-fire, in .22, .30, .32, .38, and .41 caliber. The .41 still survives in the Remington double Derringer pistol.

For many years the .22 Short was regarded as little more than a toy—too weak for game much larger than a sparrow, and often none too accurate. The .22 Long was little better. Only their cheapness and comparative safety saved these cartridges from oblivion. But gradually their

accuracy was improved, and the introduction of the .22 Long Rifle brought accuracy at increased ranges; and the resulting and ever-increasing popularity of the .22 in Short and Long Rifle has brought for these cartridges the largest sales of all American loads. As our constantly expanding civilization crowds in upon hunter and target-shooter alike, the .22 is the means by which the American is still able to gratify his inherited desire to shoot. The .22 has developed a new race of target-shooters to replace the old-timers like Harry Pope, who developed their black-powder rifles to a degree of accuracy that is difficult to equal even with the best arms and ammunition of the present day.

That target-shooting is fast becoming a major American sport is due to a wonderful succession of improvements in .22 rim-fire ammunition, as well as in rifles and equipment. After the Long Rifle came smokeless and Lesmok powders for cleanliness, hollow-point bullets to better kill vermin, safer priming mixtures to eliminate bore corrosion, coated bullets for convenience, and lastly, high-speed loads. Hand in hand with these improvements came a marvelous increase in accuracy.

Every year new target records are made only to be broken, as manufacturers of ammunition vie with the makers of rifles, sights, and gadgets to give the shooter the best possible equipment for his sport.

From the Civil War up until only a few years ago the .25 Stevens and .32 Short and Long rim-fire cartridges were in considerable demand for vermin shooting. The .32-20 and .25-20 center-fires were deservedly popular, but the two rim-fires held on because of their cheapness. Now they are nearly extinct, though single-shot rifles are still made for them. For forty years these cartridges have stood still while the .22-caliber loads have been modernized and revolutionized. Recently I have heard rumors that the .25 Stevens might be brought up to date. The .32 is still back where it was in 1895, when I shot it in a lever-action Marlin repeater.

There is altogether too big a jump between the .22 Long Rifle, even in high-speed loads, and the center-fires now on the market. The .25-20 and .32-20 have faded out of the picture, not because they were poor, but because they cost too much for most shooters in these depression days. Few men, and especially few boys, have sufficient money to shoot as much as they wish, but the .22 Short and Long Rifle loads give them a pleasant afternoon or evening of shooting at a fraction of the cost of center-fire cartridges.

Many of our six million farmers need a rifle with which to kill the vermin that injure crops, prey on poultry, or kill game and other wildlife. The woodchuck destroys clover seedlings, and digs holes that may seriously injure horses. Crows and starlings pull up seed corn, and often cause heavy loss in the cornfield when the ears are ripe. Hawks eye the chicken yard from the vantage point of a distant tree, too far away for the .22. (One flew through my yard and lit on a telephone pole the other day to wait until the chickens were unguarded, but a reduced load in the Russian rifle brought him down at 182 long paces.)

The farm boys will always want their .22's for plinking around at tin cans, stones, etc., for shooting rats around the barn, and for abating the sparrow nui-

sance. The woodlot, the open fields, and the nearby streams will always beckon to the farm boy with his .22. But for vermin shooting the farmer needs more gun than the .22 Long Rifle, even with high-speed loads. The .32 rim-fire held on for years after its black-powder ammunition had become obsolete, because its larger bullet-diameter gave the shocking power the .22 lacked. For woodchucks, crows, and hawks the farmer needs a gun that will reach out fifty per cent farther and strike a blow at least twice as hard as the .22 Long Rifle. The Hornet can do this, but it is beyond the reach of most farmers and farm boys. A rim-fire load at one-third to one-half the price of the Hornet would reach a large market which buys very little now.

Ever since the Civil War center-fire cartridges have developed almost all in one direction—that of greater intensity. Every few years, and recently every year, we find inventors and manufacturers turning out new loads that cram more and better powder behind each fraction of a square inch of bullet area, driving the bullet faster and ever faster. In place of the 1300 feet velocity of the old .44-40 that once filled a great place in the hearts of Americans, hunters are using loads with

and the result was the Savage .22 Hi-Power. Winchester made a woodchuck load last year in the .220 Swift—but I would gamble that, to date, more deer hunters than woodchuck hunters have bought the Swift.

I hate to criticize the gun editors who have done wonderful work in helping to train sportsmen in the ways they should go, yet how often do we read warnings against using too light guns for deer, while at the same time little will be said against using the .22 Long Rifle on chucks? I have no objection to a skilled marksman using the .22 for head shots, but as a farmer I do not like to know of a wounded woodchuck going into his hole to die, any better than my friend the editor likes to think of a deer dying in a swamp. Just as he wants a real deer rifle to stop a deer with, I want a rifle that will anchor a woodchuck with a body shot. The .22 Long Rifle, even in high-speed hollow-point, is in the same class for woodchucks as the .32-20 is for deer. Both are guns only for the expert who can place his shots with certainty; not for the common or garden variety of shooter.

We have seen the .22 rim-fire rifle in little more than a generation develop from an overgrown toy into an instrument of precision. At the same time we have any number of rifles and loads perfectly fitted to the needs of the deer hunter. We have shotguns all the way from 410-bores to Magnums. But when we want a rifle to shoot a load that will be cheap in cost and yet considerably more powerful than the .22 Long Rifle, it is not on the market! And why? Why was nothing done to keep up to date the old .32 Long rim-fire? Can it be that the ease

of putting up reduced loads in military cases has prevented gun-cranks from thinking about a stronger rim-fire load?

Through depression many a gunbug has had altogether too much time for reloading. Now, with employment, profits, and dividends here again, the same gunbug might well prefer, as I do, to buy cheap ready-made ammunition and take the time once used for reloading, for recreation in field or forest.

(Continued on page 34)



A Tyro's Thoughts on Pistol Shooting

By WILLARD C. POOLE, JR.

I THINK that pistol and revolver shooting is a great sport; a sport that has tremendous value not only as a recreation and hobby but also as a training in good old self-control and poise. I want to write this article before I get so deep in the sport that I forget what it is to be a tyro, which I am at present.

I got my start late in 1935 by shooting with other bank men in the New England Police Revolver League. In this league the indoor shooting is done at 15 yards on a relatively easy target which they created by reducing the 25-yard rapid-fire Standard American. All three stages of slow, timed, and rapid fire are shot on this target under N. R. A. rules. This course is really the 25-yard Police course as shot all over the country, reduced for gallery purposes with the .22 revolver. The course has been called too easy for grown men, but it forms a wonderful training ground for the tyro, many of whom may later show up as serious national contenders.

Men are not born expert pistol shots, but they cannot make even a good showing without following a few simple yet fundamental rules. It must be taken as a fundamental assumption that good pistol shooting is much harder to achieve than good rifle shooting. Every detail must be right, and consistently right, to give a good pistol group. Regular weekly practice is essential for top form. I think that regular weekly practice means shooting two or three times a week; and the true enthusiast will find himself shooting right through the year, indoors in the winter and outside with the big-bore in the summer. Dry practice in your own room keeps you in form. The best shooters dry practice, just as the skiers do dry skiing. The majority of new pistol shooters need guidance and encouragement. Their first attempts are discouraging because "it looks so easy"—yet they do not get results. They change guns, change ammunition, and do everything except change themselves.

Old-timers tell me that it is easier to learn with the pistol than with the revolver. However, many shooters begin with the revolver, being able to own and shoot only one handgun. In this part of the country many of the club members use the Harrington & Richardson .22 single-action Sportsman target revolver. The gun can be had with several sizes of grips, and needs no adaptor because this feature for supporting the weight of the gun on the middle finger is built into the trigger guard. Many of our better shots say that

it is easier to learn with the H. & R. than with any other make. However, after a man has gotten into the game he comes to want more weight in his target revolver than he finds in the H. & R. I think that this comes from a development of the shoulder muscles used in supporting the gun. Older shooters lean toward the Smith & Wesson K-.22 and the Colt Officers' Model .22. Neither of these are built on truly modern frames, nor do either of them have as good sights as the H. & R. Get a gun that seems to fit your hand the best, for every target revolver for sale in this country today is capable of extremely accurate shooting.

For target work in a revolver use standard .22 long-rifle cartridges, lubricated, and not high-speed. I find that Remington Kleanbore goes well in my H. & R. U.S.R.A. When the shooter has bought his gun and a carton of ammunition, let him either buy or obtain from any library one of the many good books on the art of pistol shooting. This book will show him how to stand, how to hold the gun, how to line up the sights, and how to squeeze the trigger. When you feel confident to begin, try the following:

Stand easily erect, with feet spread apart in a comfortable position so as to balance the body against swaying. Most shooters do not face the target, but swing the body to the left so that the right shoulder is nearer the target and the left foot is back. Find a natural angle for yourself. The object is to be steady yet relaxed. Hold the arm nearly extended:



full extension of the arm would produce rigidity and tremor. The effort required to raise the arm and to hold it extended is supplied by the shoulder muscles.

Hold your gun so that the top of the front sight rides just under the bottom of the black bull, and then gradually squeeze the trigger, using only the muscles of the trigger finger. With this simple beginning you can go 90% of the way. All that you will need for a long time will be regular practice. Try always to hold the gun the same way, and to stand in the same position. As you gain in interest and in skill you will discover that small things are very important in boosting your scores from the ordinary average into that high-score area that we all hope to reach some day.

A few good rules are:

1. Stick to one brand of ammunition;
2. Adjust the gallery lights always the same;
3. Don't change your sights because you are having an off night;
4. Pay attention to what you are doing instead of listening to the conversation of the sitters-out;
5. Don't hurry;
6. Don't pull off an overheld shot: stop and begin over;
7. Enter competitions whenever they are held;
8. Ask questions of the better shooters: they can help you and will be pleased to do so;
9. Don't be discouraged if you have an off night: the best and steadiest shooters have their off days—or nights.

The following is given in conclusion, and states what I consider to be the basic condition for good shooting with the revolver and pistol:

It is necessary for the revolver shooter to be alert, basically fit, and on his toes; rested and comfortably relaxed except for the essential muscles needed to achieve the perfection of the next shot. A good score requires a high order of concentration, not in the sense of straining, but in the sense of quietly closing the mind to any more exciting idea or sensation. It requires full attention in the sense of freedom from all undue excitement. Results will obviously be injured by pain, worry, anxiety, or any other distraction. As shooting is impaired by too much sensory stimulation, at the same time it is also impaired by too much rational effort. It requires interest. The most reliable shot cannot make a good score unless he tries to do his best. He must want to succeed.

Chasing The Sun

By JOHN SCOFIELD

St. Petersburg

Familiar faces began to appear the day before the first match was fired . . .

Wes Hansche sitting on a comfortably grassy firing-point complaining of the mid-winter hot spell and its effect on Georgia cabbage plants . . . Remington's Frank Kahrs exhibiting a pet tick bite just above the belt buckle and reciting the gory details of how he had dislodged the little pest . . . Ned Moor discussing plans for the Pershing Trophy Team, leaving for Bisley in June . . . Bill Woodring worrying about whether he would make the team as a shooting member . . .

Wednesday—nothing but re-entries . . . We shivered all morning in spite of the much-circulated warm weather and sunshine publicity of the St. Petersburg Chamber of Commerce.

We laughed with, and at, the shooter, one Ed Walker, whose score cards always were signed "Grandpappy" . . . A wind flag, improvised from what appeared to be the remains of a long-handled crab net and a red-and-white plaid bandanna, flapped at one end of the target line . . . because of its deceptive way of making a shifting tricky wind seem steady, everyone claimed it would have been more useful in its original capacity, dipping crabs . . .

Quiet Kenneth Recker of Winter Haven, Florida, introduced the first surprise of the matches by taking, from a field unparalleled for top-notch shooting, the 50-Meter Individual, iron sights, Thursday morning . . . dropping only three points over the forty shot course . . . Ned Moor, with the same score out-ranked into second. Only a name last year with no unusual performance to his credit, Recker finished in high place three times and on top in both the aggregates . . .

We were amused at the embarrassment of one shooter who, trying to ease the grief of a spilled seven with a fervent stream of profanity, discovered too late that his next door neighbor was one of the four feminine entrants present . . . With Minnie McCoy and Flossie Anson in boots and breeches and Mrs. Webb unobtrusively wandering the range it was not difficult to make such a *faux pas* . . .

Even some of the old hands at the game managed to put shots on wrong targets. Tiefenbrunn for the first time in his shoot-

THOSE things that make a match successful for the shooter are not high scores or records broken or mugs and medals to carry home and then forget, but the people themselves—the character and human interest that each brings with him to the firing line. This is the real appeal of this shooting game, not simply the punching of holes in paper or the winning of cash and cups. This account then is one largely of personalities and happenings of the kind which cause a man to become a "tournament shooter."

The shoots were held at St. Petersburg, Florida, March third to seventh, Tampa, March eighth to eleventh, and Havana, Cuba, March seventeenth to twentieth.

ing career, Woodring, and Randle, looking surprised when he found it the cause of his dropping way down on the list in one match . . .

Randle seems finally to have broken the jinx that has dogged him for nearly two years, first by cleaning up at the Oklahoma state matches, and now in Florida . . . Teamed with R. C. Pope, one of the star members of the Trinity Club of Dallas, he led the pack to win the 50-Meter Two-Man match with a 397 team total, three points above second place winners Bill Schweitzer and Wes Hansche . . .

The two Texans brought special lots of ammunition, selected for their own use after lengthy tests and then loaned some to Bill Schweitzer and one other, both of whom won their matches, leaving the Texans out in the cold . . . Then Schweitzer, as if to reciprocate, used instead of painstakingly selected ammo, some old stuff that had been under water, and failed to even place in the match . . . Bill discovered his rifle had a cracked receiver after nearly all the events had been fired and realized why it had behaved so peculiarly and failed to give him many top rankings . . .

An oldster unaccustomed to range language, "re-entries," "practice targets," and what not, one afternoon approached range-officer Frank Wyman: "I don't do much reg'lar shootin', but I sure would like about a dime's worth of aimin'." For two days Frank was pestered by would-be humorists requesting varying amounts of "aimin'." . . .

Randle won again in the Individual Short Range, scope sights at 50 and 100, but this time one point below his old record, set last year . . .

After they were scored we all crowded around and admired Charlie Hamby's targets fired in the 50-yard Individual, iron sights—a 400 Possible with 36 X's—all so closely grouped that but one shot actually cut through the white ten ring . . . Recker finished second and Doc Lewal-

len, one down, third . . .

As always at a small-bore shoot we noted the contrast of associations on the range . . . auto-technician Charlie Vincent shooting in a chill early morning wind beside truck-farmer Wes Hansche . . . Doc Lewallen, a local veterinarian, talking to McLeod Greathouse, officially Fort Worth's Assistant District Attorney

but more familiarly a sombrero-topped small-bore fan and an enthusiastic "candid" photographer . . . Hal Drake, Atlanta lumber dealer, and Charlie Hamby, a photo-engraver, together in the two-man teams . . .

Drake is another whose hobbies are equally the rifle range and the dark room. It has been especially noticeable of late that a camera has become as much a part of the rifleman's equipment, and as varied in cost and origin, as his scope.

The 50-Meter Individual, any sights, ended with Bill Woodring and R. C. Pope tied for first place with identical 399's. A shoot-off separated the two, Pope four points below Woodring . . .

Off-the-range diversions were many . . . Nights we watched the ceremony and showmanship of operations at St. Petersburg's Kennel Club, the dogs paraded by bright-uniformed attendants, a band blaring and then the hush as the eight animals broke after the mechanical rabbit . . . six dollar bets "across the board" and the excitement of seeing your number lead the pack in . . .

There were always crowds around the slot machines, pockets full of coins disappearing and the concerted shouts of everyone, participant or not, when one occasionally paid off . . .

Twenty at 200 in the Wimbledon match, Mike Bridgland high with 195 . . . Hamby and Pope tied with 194 7X scores, but Pope ranked to third . . . Curiously, the only 99 turned in was that of Wes Hansche for his second string, and still he landed in thirtieth place . . .

As usual, Bill Schweitzer's signature on re-entry cards puzzled unfamiliar office personnel. They finally took it for granted that any entirely illegible name must be his . . .

Doc Lewallen won the "St. Petersburg Special", changed this year to straight Dewar Course . . . his car the worst on the range, antiquated and rusty, com-



Tampa's range . . . noisy with gunfire . . . busy from dawn till dark

pletely mashed in on the left side, both fenders crumpled and twisted beyond hope, bumping over the mile of dirt road between the main highway and the range . . .

Recker finished ahead again in the Long Range Individual . . . Lewallen this time second . . .

The smoothest operating two-man team we have seen, Randle and Pope, won their second team event, The Short Range, by dropping only three points in the eighty shot total . . .

Every shooter on the range crowded the benches behind the line or stood, quiet, as Hamby sent shot after shot into the 200-yard bull in the Swiss match, monotonously perfect holding, on through the lunch hour, his scorer filling five yellow score cards, then getting shaky, trying to beat wind and the fatigue of tired, cramped muscles, a shot barely on at 12 o'clock and finally his hundredth out at six . . .

This beats Mike Bridgland's Swiss match score of last year by 12 bulls . . . an entirely new record, as Randle's famous run of 196 at Ritchie in '35 was made on the slightly larger C-5 target while Hamby fired on the standard decimal target . . .

The Rebel-Yankee match, started on the spur of the moment to fill in a gap in

the program, and a tremendous success . . . The Rebs, "General" Greathouse, picked from the Southern shooters, at one end of the line and the Yanks, "General" Woodworth, at the other . . .

Hal Drake leaving the "Rebel" camp under the protection of a white flag and relaying messages to the "Damyankes" . . . "You can be damned, suh, we won't surrender", and to back it up, a Rebel victory . . .

Ohio's Minnie McCoy edged out most of the country's best shots to take the Individual 100-Yard Match . . . Pope again proved his shooting ability by winning the Individual Dewar, and the Two-Man Long Range went to Bridgland and E. A. Comer . . . The last match, a four-man Interstate Team event, went to the Texans, Randle, Pope, Greathouse and Knight . . .

Hal Drake, who has become a rival of Sam Moore as clown of the range, topped off the last morning's shooting by posting a grand aggregate on crossfires . . . Randle, Tiefenbrunn and Woodring high for having fired on wrong targets the most times . . .

When Thurman came on the line for the last match he found that practical-joker Drake had instigated the piling of all manner of junk on either side of him and had

arranged "blindlers" in such a way that a shot on a target other than his own would have been virtually impossible . . .

Tampa

Tampa is a pistol shooters' town . . . Awake to the promotional possibilities of the handgun game the Floridians must have surprised even themselves with the unprecedented number of competitors who showed up for the four days of shooting . . . one hundred and forty-two . . . more than three times the total attending last year's competitions . . .

The Police Pistol Club range was host to as varied a crowd, geographically, as any meet other than Perry, as well as to a group of shooters entirely new to this country—the Cubans . . . Twenty-four islanders, representing Army, Navy, Policia Nacional, and civilian sectors, came to Florida to compete with our pistolmen . . . pitting themselves against such regularly attending teams as the Los Angeles Police, Border Patrol, Miami Police . . .

Tampa's range is the same . . . covered fifty yard firing points . . . the same fast moving targets . . . around the whole, pines and grey-green live-oaks hung with cascades of greyer green Spanish moss . . .

Looking from the 25-meter firing points toward Havana's Casino Deportivo



As last year, records were broken, two of them, by the Los Angeles team . . . Emmett Jones continued the brilliant shooting that is fast giving him the position of North America's Number One Pistolman, though Walter Walsh might have had first place in the aggregate save for the tailspin he did in the last match . . . A newcomer to the top rank, Major Richards of the Marine Corps, appeared a likely contender for high honors in matches to come . . .

The attitude of these shooters was not the carefree, don't-give-a-damn-sort-of one that characterized the small group here last year, when horse-play and fool pranks took as much time as actual firing, but more business-like, more attention paid to squadding tickets and Preliminary Bulletins . . . Mainly because, for high twenty-five, the aggregate held an unusual incentive . . . expenses in Havana during Cuba's Pan-American matches . . . an arrangement made possible by the generosity of the Havana Tourist Bureau and the "salesmanship" of Smitty Brown and Tom Perez.

And deadly serious business it was when the first match was fired . . . Major Richards' 188, equalling Jake Engbrecht's score of a year ago, good enough to win the .22 slow-fire event . . . Walter Walsh, the Federal Bureau of Investigation's ace man with the small caliber pistol, second, four below Richards . . .

With such a number of competitors firing, the four match a day schedule was a full one, the range noisy with gunfire from early morning 'till dark, range officer and shooter alike grabbing hasty lunches whenever a slack moment came . . . entries from seventy-nine to over one hundred in the individual "open" events, meaning with forty targets, three relays in nearly every match . . .

In the second .22 caliber event over the National Match Course, principals remained the same though positions changed . . . Walsh first with 289 and Major Richards this time second, one point under Walsh's score . . .

Most prominent and busiest figure on the range throughout the shoot was Jake Engbrecht, taking movies of any and everything . . . having twenty-five hundred feet of film to expose . . .

Smitty Brown, who had worked for months building up the shoot, found no rest during its four days, competing in the matches as well as arranging all of the entertainment given Tampa's visitors . . .

That nearly every shooter prefers the large caliber revolver to the .22 was shown by the number of entries in the .38 slow-fire match, largest of the meet. Pat Baldwin, Miami Police shooter, won on a score of 186, again duplicating, as was done three times, the scores of a year ago in the same match . . . Walsh again sec-

ond . . . In top place among the Cubans was Dr. Gonzalez Roig, A.N.T.C. (Asociacion Nacional de Tiro de Cuba) member, and a vacationing Havana physician. Three of the A.N.T.C. team, Roig, Feo, and Palomino are of the medical profession and the others, Alfonso and Quevedo, pilots . . .

The Cubans were the best sportsmen that we have seen on any range . . . Handicapped by unfamiliarity with American shooting methods, many of them speaking little or no English, and in addition some of the military contingent having been shooting only a few months, they still showed an attitude that could well be a lesson to many of our shooters and a good example to us all . . .

These matches introduced to the Cubans American methods of running a range, vastly different from their own, which are more like the Olympic and International competitions, and moreover introduced them to the pistol-shooter's term "alibi" . . . Little Commandante Sabas Gonzalez,



Charles Rodriguez Feo
Steady-nerved, he out-duelled Cubans and Americans

Cuban Naval officer, was so taken with the use of alibi runs and called for so many that he was dubbed "Alibi Ike" . . . For the duration of these and Havana's matches the name stuck with him . . .

New records set by the Los Angeles wizards have become of almost monotonous regularity . . . In the Two-Man Team Championship they boosted the Border Patrol's record score of last year by five points . . . Wheeler 272; Jones 286; total 558 . . . However, it means little as this is the only team match of the type in registered competition . . .

Pistol records are becoming increasingly hard to better . . . With such high scores as Engbrecht's 292 over the N.M. and 296 over the Police Course to shoot at, not many of our finest shots can even equal these totals . . . True, range records were broken, many of them, but few were the national records even endangered . . .

One often can pick, out of a group on the line, a probable winner simply by noting the shooter whose bearing is the most naturally relaxed, quiet nerved and without hint of strained or tense muscles . . . These are features that instantly appeal to you, watching Emmett Jones' or Walter Walsh's easy, comfortably unhurried manner when firing . . . Seldom does the contorted, chin-on-shoulder stance give a shooter any high ranking . . .

This ability to make the most of time allowed, without imposing on his nerves the disturbing element of haste, contributed much to Jones winning the .38 timed-fire match, going over the twenty-shot course with only four down . . . Roger Scott second, 194 . . .

The Individual Police Championship went to Walsh whose score bettered second place winner Engbrecht's 280 by two points . . . Walsh's total now two first and two second places out of five individual matches—an impressive record . . .

Kansas City's police organization came in for honors when O'Connor won the .38 rapid-fire match with a score of 188 . . . Wilzewski of the U. S. air force second with the same . . .

First place in the Four-Man Team Championship was taken by the Border Patrol, Knesek, Askins, Davis and Jackson, who sent in a total of 1122 . . .

The besetting ambition of the Miami Police team was satisfied in the Four-Man Team Championship, for though they finished, not in first place, but second, the invincible Los Angeles Team occupied third . . . identical scores but the Californians Creedmored out . . . Sergeant Crews spent all of that afternoon frantically burning up the long distance wires relaying news of the victory to the home town . . .

Joe Dirks, not a shooting member, as a punishment for having "let him down", gave two L.A. team members a hair-raising ride around the range, off the road, careening through the grove of pine trees back of the office, trying to scare some shooting ability into, or out of, them . . . The effectiveness of his treatment was demonstrated in the last of the team matches . . .

Only National record broken other than the two-man team was the four-man event, in which L.A. turned in a score of 1117, one point over the old record, established at Ritchie by the Delaware and Hudson R.R. Team . . .

The Open Pistol Championship was won by L. J. Young, Los Angeles, on a score of 285 . . . Emmett Jones following, 284 . . .

H. L. Gau won the .45 caliber championship, fired over the National Match Course, with 271 . . . Major W. A. Hedden below Gau, 271 . . .

(Continued on page 31)



"Hard to reach"

Two Days—Two Big Bucks

By KENNETH FULLER LEE

(Photos by Author)

LAKE CHEMQUASSABAMTICOOK, if you are interested in geography, lies about twelve miles due west from Umsaskis, which is merely a wide place in the famous Allegash River, half way between its source in Allegash Lake and its outlet in the St. Johns River, two hundred miles to the northward.

The Indians who named these lakes were notoriously careless in picking their cognomens—probably because of the fact that they didn't have to do any spelling and could go as far as they liked. "Chemquassabamticook" probably meant "Hard to reach", or if it didn't it should have, for there are no roads leading to it, and the only stream, which flows past the little logging post of Clayton Lake on the Lacroix Road some fourteen miles from the lake, dries up during the summer and is not traversible by canoe.

Bill and I had flown over the lake several times during the summer of 1936 in his cabin Fairchild, which is equipped with pontoons. On each occasion we had noted that the lake had all the earmarks of an ideal hunting base for a seaplane: hardwood ridges and cut-over areas, cedar swamps for the whitetails to lurk in when the weather was too hot, and virtual inaccessibility.

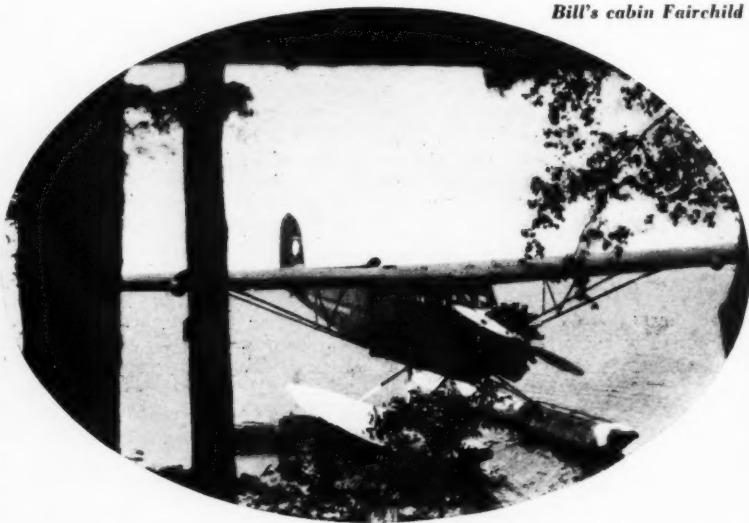
Our deer season in Maine opens on October 1st, and promptly at eight o'clock that day I heard Bill circling over my camp on Lake Maranocook, opening and closing his motor throttle to call me down to the float.

Down he came in a long slant, the pontoons kicking up a high spray as he landed and came taxiing in. His head appeared in the window, and he shouted: "How long will it take you to get packed? We're headed for Chemquassabamticook!"

"The Antlers" (my base camp) is the handiest place in the world to get a quick start from, and we got busy proving it. Bill's ship is a four-place job, but as he and I were to be the only passengers, that left us plenty of room for camping equipment. Into the back seats went my little silk Forester's tent, a couple of Fiala sleeping bags, two basket packs full of cameras, cooking kettles, pans and pots, and enough grub for three days.

My new .348 Winchester and a box of ammunition, the little .410 Winchester Skeet gun and fifty 3-inch shells loaded with chilled 7½ shot and as an afterthought my H. & R. USRA target gun and a couple of boxes of Super-X hi-speeds with solid points were also included.

Bill's cabin Fairchild



Clouds over Belgrade Lakes



"I didn't even bring a gun—figured you'd have plenty of 'em anyway," said Bill, who has been at camp frequently and is familiar with my arsenal. It took us less than an hour to make all preparations for the trip, with everything neatly stowed in the rear of the cabin.

At nine a. m. we took off, scaling up into a head wind and passing over the Belgrade chain of lakes at an altitude of about two thousand feet. Clouds hid most of the lakes, and we made a few pictures as we bored along at better than 140 miles an hour.

Bill swung the ship to the eastward, and we followed the silvery ribbon of the Kennebec River, passing over the mountainous country around the famous Bingham Dam. Then up over Pierce and Pleasant Ponds (famous salmon waters), Indian Pond, till far ahead we saw the little town of Greenville and the shimmering expanse of Moosehead Lake, with Squaw Mountain towering to the westward.

Moosehead is forty miles long, and we left it behind us in less than half an hour; then swung over Chesun-

We set up the little tent on a sand bar



cook Lake, following down through Chamberlain and Eagle lakes and across the north end of Churchill, swinging west again and down in a slanting rush.

Back-seat driving as usual, I warned Bill to keep an eye peeled for stumps as we skittered, duck-fashion, into the broad expanse of Chem-quassabamticook, and came to rest in a quiet cove on the east shore. Then I looked at my watch. We had left

Fat and handsome

Maranocook at 9 a. m., now it was just 10.45, and the approximate distance, air-line, I knew to be about 225 miles.

The cover sheltered the ship from all winds except from the west, so we ran a couple of lines ashore and fastened them to sturdy trees. Bill carries a mudhook in the ship, and he tossed it out and tested it, deciding that the plane was safe for the time being.

"If we should happen to get a high wind while we're here we may have to move her to the other side of the lake. If she went ashore those pontoons are too thin to stand much banging on the driki," he said. Attention to little details like that is what spells all the difference between sport and disaster, and Bill has been flying seaplanes for the past eighteen years.

The country looked good! Deer trails led down to the water everywhere, and we hastily set up the little tent on a sand bar,

built a fireplace of big stones, got several cans out of the basket packs, and enjoyed a hearty meal over a driftwood fire. Then we smoked, and talked a bit before commencing our campaign. Bill elected to take the .410 and look for grouse in the evergreen strip along the lake that first afternoon. He is not an experienced deer hunter, and admits it.

"You take the rifle and go off by yourself and locate 'em. Get your buck if you can, and then tomorrow you can take the shotgun and act as my guide," he said.

Nothing could have pleased me more, for it takes one day for the most experienced hunter to familiarize himself with a new locality—and I always like to hunt alone when time is short.

I stuffed five cartridges into the .348, and showed Bill how to operate the little Winchester. Then we separated, agreeing to be back at the tent about dusk. This was my first chance to try out the big Winchester on game, although it had been given a stiff workout on deer targets earlier in the Fall.

Less than an hour after setting out from the tent I entered a big burn-over area which was fast growing up to raspberry bushes and small second-growth. Deer sign was everywhere—a small buck stood facing me less than fifty yards distant, stamping and blowing impatiently. Grouse clucked under foot, but I left the little H. & R. in its holster, disregarding a number of very tempting opportunities because I did not wish to spoil a possible chance at nobler game.

During the afternoon I jumped several deer, but there were no good heads among them. Just before dark I came out on a hardwood ridge which sloped toward the lake, and commenced to really do some stalking. Soft-soled moccasins properly handled enable a woodsman to travel without much noise, and by stopping frequently and using both eyes and ears to the utmost, standing shots are frequently to be had.

My buck was feeding in the beechnuts, head down and facing me when I first got a glimpse of him. He worked behind the roots of a big blowdown, so I sat down and rested both elbows steadily on my knees, and lined the sights of the .348 on the spot where I expected him to emerge. But he didn't come out. Either a shifting wind had carried my scent to his keen

nostrils, or he had intuitively received a warning of the presence of danger. For five minutes I just sat there, practically holding my breath. Nothing happened.

Then, through the interlaced roots of the old blowdown I caught a part of his outline—his head and a foot or so of his thick neck, faintly against the lake at the foot of the ridge. With my .250 Savage, companion of many successful hunts, I would have considered that an extremely difficult shot—probably would not have attempted it at all. But I had a clear picture in my mind of the way those 200-grain .348's had waded through dense alders in my first tests of the new gun. So, shifting the muzzle ever so gently, I brought the gold bead to rest in the center of the outline of the buck's neck, and slowly increased the pressure on the trigger, holding hard.

At the roar of the big gun I slammed the lever down and back, fully expecting to see the buck come tearing out from behind his shelter, with all sails set. But he did not show up. Walking down toward the blowdown, I kept the rifle poised; for several times in a long and varied career I have been caught off guard. It was eighty long steps to the blowdown, and back of it, stretched full length, was one of the finest—and deadest—twelve-point whitetail bucks that has ever come to my attention. The big bullet had landed squarely on his neck-bone midway between his shoulders and his head, and the 2-inch hole of emergence was proof enough of the devastating punch of the new cartridge.

So I fired two shots, slightly spaced, and in ten minutes Bill had joined me, and we dragged the fat buck to the lake, downhill, in record time. My old practice of hunting in a circle had saved us plenty of work, for getting a big buck out is usually a real task.

We dressed him out and swung him from a tripod of poles, to cool, less than fifty yards from our camp-ground. Bill had picked up four grouse that afternoon with the little .410, and was loud in its praise. This gun has the Skeet boring, and its 26-inch barrel tends to make it handle fast; and the straight grip, smooth action, and the 3-inch shells make a deadly combination for fast shooting at close range.

Broiled grouse breasts, with strips of bacon pinned to the plump flesh, make as

tasty a meal as any pair of hungry hunters could desire, and two birds per man is just the right prescription. Bill and I bolted them, backed them up with pilot biscuit liberally anointed with peanut butter, and washed the entire banquet down with a pint of steaming tea. M-mm! Then we heaped several driki roots on the cooking fire, spread out sleeping bags on the sand, and soaked in Happiness, listening to the wind in the cedars, the slap of little waves against the aluminum pontoons, and the calling of a pair of Great Horned Owls on the ridge back of us. Nights like these make life really worth while, as every hunter knows!

Daybreak, with the breakfast dishes still unwashed, found us back on the big burn. Bill is a grand hunting partner except for one thing: he puts his feet down too hard and in the wrong places. Bucks are mighty particular about little things like this, and in two hours of hunting Bill convinced me that it was going to be difficult to get him within range of a fair target. Twenty years of guiding has taught me several things, however. So I placed him comfortably on a mossy seat atop a little ridge bordering the cedars, and told him to stay there, while I made a wide detour and came back through the evergreens, making all the noise possible.

And Bill got his buck! As a matter of fact the buck would probably have run squarely over him except for one thing: Bill luckily caught sight of the big boy as he came tearing out of the swamp, and the third shot from the .348 landed right at the base of the buck's broad throat and tore almost completely through him. Later we dug the badly deformed bullet out of the deer's hindquarter, where it had lodged against a heavy bone. Oh yes, it stopped him! Bill claimed (perhaps he was a trifle excited) that the force of the blow "set him back about six feet".

Nearly half a mile to the lake this time, but we finally made it and got the two big fellows hung up side by side—a truly noble pair of whitetails. Bill's had ten very even points, with broad beams and sturdy branches. He flew to Greenville with the first one, while I remained at the tent and awaited his return. Then we loaded Buck Number Two into the rear of the cabin, and hopped off for home.

Our 1936 hunting trip lasted less than 48 hours—but was it a Honey!



A Home-Made Reloading Outfit

By E. M. POLK

I SET out some time ago to reduce the cost of rifle shooting, both target and hunting. I have succeeded so well, with a minimum of expense, that I should like to pass on to the many readers of this magazine the knowledge and experience I have gained.

My favorite gun for target and vermin is the .30-'06, but target ammunition at from two to three cents per shot, and hunting ammunition at three times that, ran pretty steep for the amount of shooting that I like to do. A reloading outfit of the type I wanted also meant laying out too many iron men all at once, so I studied all the best commercial tools, took the best features of all of them, added a few of my own, and then started in to make a set of reloading tools that I thought would give good results, especially in the way of accuracy.

It was an easy matter to get the general design on paper, but the dimensions of case-sizing dies could only be guessed at. I knew that a fired case must have the neck resized in order to firmly grip the bullet, but I did not know how much the metal in the case neck would spring back after sizing, so this part of the business had to be worked out by trial and error. My father was as interested in reloading as I was, and I must give half the credit for ideas and construction to him. We both had access to all the necessary metal-working machinery, and so divided the work.

Space will not permit publishing a full set of drawings of all the tools, so I have included sketches of the various dies and tools, and will give a short description of each.

Loading Press

The loading press must give a straight-line motion to the moving parts, have considerable power (mechanical advantage), and must be accurate. This latter requirement can be accomplished only by machining all parts to close limits. The toggle-actuated head, sliding on guide bars, is the simplest form of machine for satisfying all of these requirements. The case is held in a machined groove in the top of the sliding head, the front of this groove being a straight-sided slot and the rear having a flange turned in it to fit the head of the case. The case is pushed straight up into the dies, etc., above. The top of the press serves the double purpose of spacing the guide bars and holding the dies, which screw into it. A priming lever is also included in the press. This lever swings backward into a slot milled ver-

tically through the sliding head, and serves to seat the primer on the down stroke of the head.

Sizing Die

This die straightens out the neck, squeezes it in to make the neck undersized, decaps, and sizes the neck from the inside, all in one double stroke of the handle; the operations being in the order named. It does not size the case full length, the tapered hole in the lower part of the die being but a reasonably snug fit on the case, and acting only as a guide for it. The stem that screws into the center of this die holds the replaceable decapping pin and neck expander, both being locked in place by the cap nut. A 0.3260" hole will sufficiently squeeze the case neck in, and the expander is three-quarters of a thousandth larger in diameter than the bullet used, to allow for the spring in the metal. If we are loading a standard 0.3080" bullet, the expander size would be 0.30875", and if a 0.3100" bullet, 0.31075". The use of the expander, or inside sizing, is essential because it gives more uniform hole-sizes and is not dependent upon uniform wall-thickness of the metal in the case, which latter varies. The decapping pin and the expander are both easily removable for changing of sizes or for replacement. Lock nuts are used on both stem and die so that the same seating depth is always maintained. The sizing die and expander are made of a good grade of tool steel, are hardened, and are lapped on the working surfaces. The stem is made from low-carbon steel, while the decapping pin is made from a tough oil-hardening steel.

Bullet-Seating Die

The bullet-seating die is similar in construction to the sizing die, except that the small hole is 0.3340" in diameter so as not to squeeze-in the case neck, but merely hold it snugly while the bullet is being seated. The insert is drilled out to fit the ogive of the bullet, and is supplied with lock nuts so that there is no danger of its loosening or changing position during operation. The edges of the hole in the insert are given a large radius to eliminate shearing of the sides of the bullet. This die was made from low-carbon steel, and no heat treat was necessary.

Bullet-Sizing Die

When moulded lead bullets are used, they must be sized after moulding to insure uniformity. The die for this purpose consists of a straight threaded plug which screws into the top of the loading

press. It has a hole of two concentric diameters—0.3160" and 0.3100". The second dimension determines the size of the finished bullet, and I find that the best lead-bullet accuracy results from using a bullet 0.0020" larger than the groove diameter of the barrel. The die is made of a good grade of tool steel, and hardened. The sizing hole was lapped smooth. The die is put in the press with the large pilot hole down. A pin was turned up from cold-rolled steel, one end being small enough to enter the smaller hole in the die, while the other end was a duplicate of a .30-'06 case head. The small end was drilled to fit the ogive of the bullet to be used. This pin, or bullet seater, fits into the sliding head of the machine in the same way that a case does, the bullet being placed point-down in the upper end. The bullet is thus pushed base-first through the die.

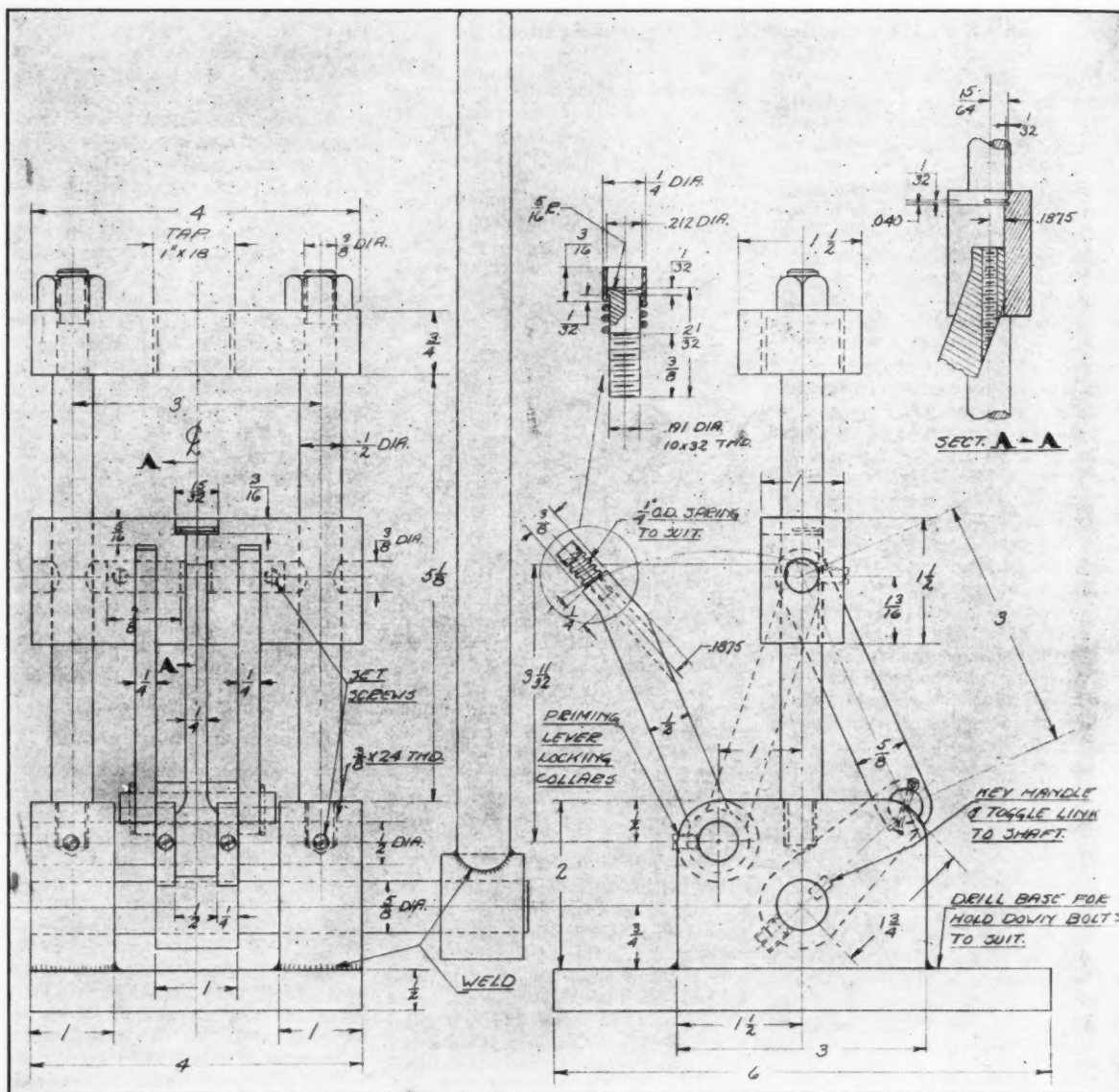
For a cheap hunting load I use the .32-20-115-grain soft-point bullet. The diameter of this bullet is about 0.3120", and it must be sized to 0.3080" in order to be used safely in a .30-'06 rifle. This is a simple job with a die as described above, but having a 0.3080" hole. As a word of caution I must add that these cheap, lightly constructed bullets will work very well up to about 2800 feet velocity, but beyond that there is danger of the bullet stripping the rifling.

Reamers and Countersinks

When loading lead bullets it is necessary to ream the inside edge of the case mouth so that it will not shave lead from the bullet during seating, and a 60-degree countersink will do the trick very well, either by hand or power. Cases that have the primers crimped in when manufactured also require a little additional work the first time they are used. Often the original primers must be driven out by hand, and for this purpose I made up a punch from a 1/4" rod of tough alloy steel, and hardened it in oil. The end I ground down to fit the flash hole in the case. Striking this punch with a hammer will drive out any primer that was crimped in at the time of manufacture.

A very satisfactory reamer can be made to ream out these crimped primer pockets, and I give a sketch of the one I use. It is a flat reamer, the pilot of which measures 0.2050" in diameter, and from 0.0900" to 0.1000" in length. The back cutting edge flares out with about a 1/32" radius. The length of the pilot governs the depth to which the reamer cuts into the case, the

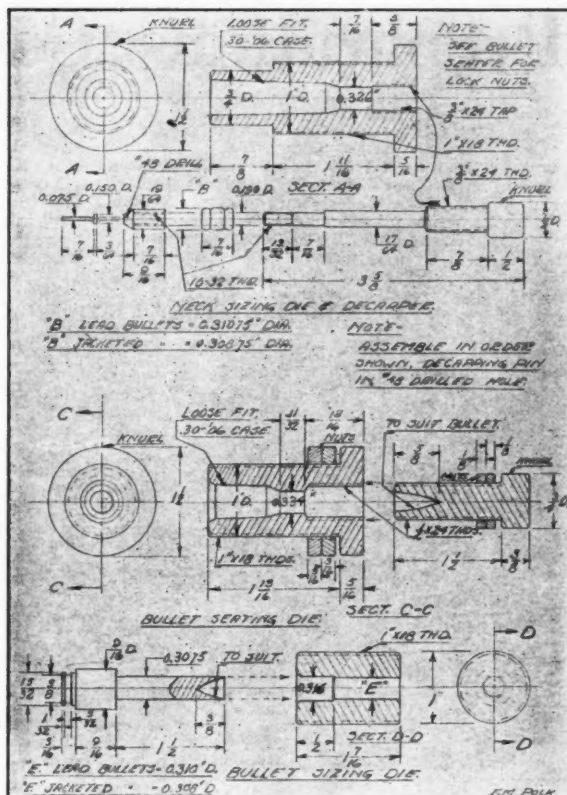
work. However, we made two sets of scales before we got one that would read accurately to less than one-tenth grain. We chose the beam type of scale, as this is the most simple to make. A powder pan made of sheet aluminum hangs at one end of the beam, while the other end is



threaded with a 10-32 die, and the extreme end pointed. The sketch gives the dimensions that we used and which we consider the best. One important thing about a beam scale is that the knife-edge for supporting the pan, the knife-edge in the center of the beam, and the mass of the threaded end and pointer, must all lie in the same straight line. The weight of

the beam must be as little as possible, but what weight there is must be on this line. Too much weight above makes the pointer swing away from center in whatever direction it has started to swing. That is, it will tend to cling to the top or bottom beam-stop. Too much weight below the center line makes the pointer seek the center too quickly, and the beam will not swing freely.

The beam was made from a half-hard steel which is easy to work but resists bending. (Incidentally, 1/16" by 1/2" spring wire is an excellent material for this purpose.) The central knife-edge (a 60-degree vee) and its bearing (a 90-degree vee) were hardened, ground, and stoned. The pan support was made as follows: A hole was drilled in the beam above the center line, and the bottom of the hole filed down to a 90-degree vee, the point of the vee being on the center line. The edges of the vee were beveled off so that only a line in the middle remained of

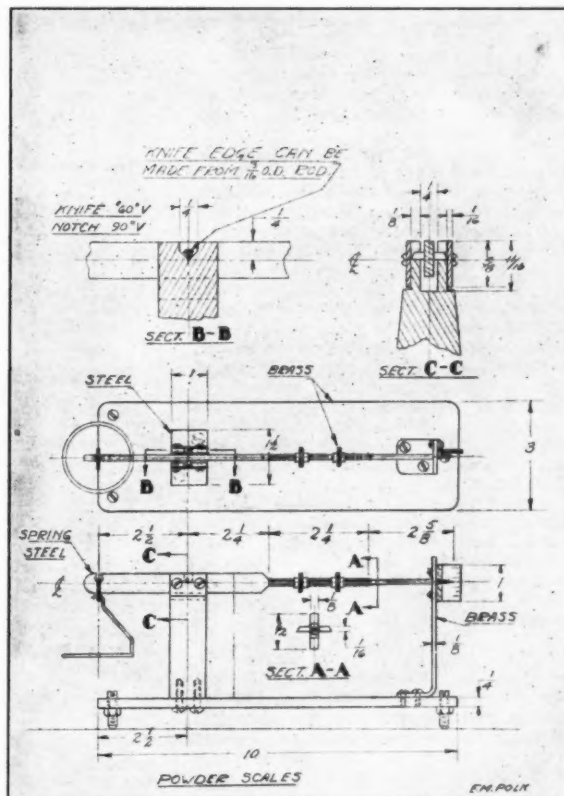
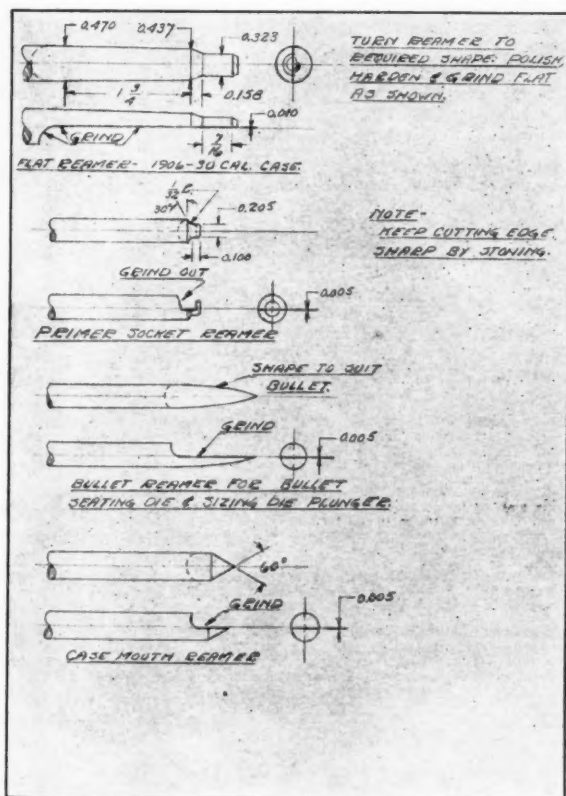


the original surface. Then a 1/16" slot was cut from the top of the beam down into the hole. A ring was turned up about 1/2" in diameter, and the sides beveled off toward the center, finishing up with a sharp-edged 60-degree vee as the inside diameter. The cross-section of this ring as finished is an equilateral (60-degree) triangle. The ring was hardened and stoned, and then dropped into the hole in the end of the beam. This gives a point contact.

When no dirt or burrs are present this makes a very sensitive scale, but if a little dirt is allowed to settle in the point of contact of the knife edges, the scales will be anything but sensitive.

The base of the scales and the upright at the end (which has stops for the beam, and also a graduated scale for reading the swing) must be made out of brass or aluminum, as steel is easily magnetized, and this may take place when grinding. The

(Continued on page 34)



Bisley Preparations Continue

WITH the opening of the 1937 outdoor season, the interest of most small bore rifle shooters is centered on America's first attempt to regain the Pershing Trophy from the British marksmen since the 1931 American team was defeated at Bisley by a two point margin. The team officials, E. N. Moor, Jr., Captain, Thurman Randle, Coach and R. H. McGarity, Adjutant, are carefully checking the ability of the 42 man squad which was given them, in an effort to select a team which will be capable of giving a creditable performance in the challenge match when it is fired at 3 P.M. Friday, July 9, on the Bisley range.

The British Society of Miniature Rifle Clubs is likewise carefully laying plans to place on the firing line a team which will include the outstanding British small bore marksmen in the hopes that they will be able to successfully meet the challenge of the American shooters. The captaincy of the British team has been awarded to Major Thomas Sutton who will be remembered as one of the bulwarks of the successful 1931 team.

In accepting the American challenge, the Council of the Society of Miniature Rifle Clubs have kindly extended their rules to open the various events composing the Individual Expert Aggregate to the members and officials of the American Team. The same special ruling will apply to all re-entry competitions for the same class of marksmen. This is the event which was won by Dr. E. O. Swanson of Minneapolis, Minn., in 1931. The S.M.R.C. also agreed to the following special changes in their match rules to accommodate the Americans.

That against our Rule 3 the use of magazine pattern rifles be allowed as single loaders and with regard to such rifles that do not comply with our regulation as to trigger adjustment screws, that such be allowed subject to the action being sealed by our Armourer.

That the various types of .22 long rifle ammunition in use in the U. S. A. be allowed, provided it is sent in bulk and in sufficient quantity to enable any of our competitors to purchase such ammunition on the range if required and so comply with our Rule 7.

As soon as they were given the names of the members of the Bisley squad, the Team officers canvassed the list, by letter, to determine how many of the group would be unable, because of business or personal reasons, to leave home for the required length of time. Only one man, Eric Johnson, the well-known barrel maker, requested that he no longer be considered as a candidate for the team. All the others were ready and willing to make the trip to England's "Camp Perry" at Bisley.

A careful study of the records of the other shooters on the list indicated to the team officials that they were all quite evenly matched and that almost any twelve they selected would be a difficult team to beat. Three men on the list, however, had outstanding records. Bill Schweitzer, Dave Carlson and Bill Woodring not only held down the three top places on the 1936 list of the nation's leading small bore shooters, but they also had the three highest Dewar Course averages and took the three top places in the small bore aggregate at Camp Perry last year. They held such a definite lead over the others on the list that they

were without further question selected to form the nucleus of the team. It was decided to give all the other candidates an opportunity to demonstrate their 1937 shooting ability under match conditions before selecting the nine additional team members.

A meeting of the Executive Committee of the N. R. A. will be held in Washington,

May 15. At that time the team officers will be asked to submit a report on the selection of the team personnel and the announcement will be made immediately after the selections have been officially approved.

All squad members received their instructions for this preliminary firing in the memorandum which is reprinted below:

UNITED STATES INTERNATIONAL RIFLE TEAM 1937

Memorandum No. 2.

Selection of the Team:

The first three places on the Bisley Team have been allotted to William P. Schweitzer, of Hillside, New Jersey, Dave Carlson, of New Haven, Connecticut, and William B. Woodring, of Alton, Illinois, in recognition of the outstanding tournament records they compiled in 1936. They will not be required to take part in any further tryouts but are required to keep in practice until the team is ready to sail on June 23rd.

The nine other members of the team will be announced on May 15th, following tryouts conducted for the purpose of determining their present shooting form. In selecting these remaining members of the team, the Team Officers will be guided by the results of the tryouts, the records of all 1936 registered tournaments and such other factors as may, in their opinion, affect the organization of the strongest possible combination on the firing line at Bisley.

At least one candidate from each of the tryout points listed below will be included on the team.

Tryouts:

1. Pacific Coast Section:

Dates: April 9th, 10th and 11th.
Place: Glendale Rifle & Revolver Club Range, Glendale, California, in connection with California State Small Bore Matches.
Supervisor: Mr. Thurman Randle, Pershing Team Coach.
Competitors: Edgar Craven, A. F. Goldsborough, Victor Massie, L. A. Pope.

2. Eastern Section:

Dates: May 1st and 2nd.
Place: Ossining, N. Y.
Supervisor: L. M. Temple.
Competitors: W. O. Breuler, E. J. Doyle, R. D. Lambert, J. C. Lippencott, Rodney Reston, C. W. Tilly.

3. Southern Section:

Dates: May 1st, 2nd and 3rd.
Place: Birmingham, Alabama, in connection with the Alabama State Small Bore Matches.
Supervisor: Mr. L. Q. Bradley, N. R. A. Staff.
Competitors: William G. Summerall, Charles G. Hamby.

4. Ohio Valley Section:

Dates: May 1st and 2nd.
Place: Fort Harmer Range, Marietta, Ohio.
Supervisor: Mr. E. N. Moor, Pershing Team Captain.
Competitors: D. Bashline, V. Canfield, J. I. Davis, Dr. R. Gardner, Dr. B. R. Goldsberry, Merle Israelson, A. L. Darkow, H. H. Jacobs, C. D. Kallensee, R. E. Loudon, Wm. Patriquin, C. F. Rider, W. D. Scarborough.

5. Great Lakes Section:

Dates: May 1st and 2nd.
Place: Ft. Sheridan, Ill.
Supervisor: Major Francis W. Parker, Jr., N. R. A. Executive Committee.
Competitors: Edwards Brown, Carl Frank, A. O. Franz, M. Grosskopf, V. F. Hamer, Wes Hansche, Fred Johanson, M. L. Kobler, L. W. Mason, Earl Mercier, Dr. E. O. Swanson, V. J. Tiefenbrunn, E. F. Warnes.

Course of Fire:

Each Competitor will be required to fire twice over the Dewar Course, metallic sights (20 shots at 50 yards, 20 shots at 100 yards), total 40 shots at each range. They may complete all their record firing in one day or may fire once over the course on each of two days. If fired on one day, at least two hours must elapse between the completion of the first course and the beginning of the second. Competitors will be permitted unlimited practice firing but no practice targets may be framed at the same time as record targets. A competitor who has indicated his intention to fire for record must complete the course within the time limit (30 min.) without interruption other than that normally required for a change of targets. N. R. A. Rules will govern.

Targets and Ammunition:

Registered targets for record firing will be furnished by the N. R. A. They will be returned to N. R. A. Headquarters for official scoring. Competitors will furnish their own ammunition.

Financial Arrangements:

Each candidate for the team will be allowed 4c per mile transportation from his home to the designated tryout point, plus \$10.00 subsistence for the period he is away from home. Unsuccessful candidates will be reimbursed as soon as the team personnel is announced. Successful candidates will be reimbursed at New York before the team embarks.

NATIONAL RIFLE ASSOCIATION,

C. B. LISTER,
Secretary-Treasurer.

Washington, D. C.,
April 5, 1937.

CHASING THE SUN

(Continued from page 23)

The Los Angeles Police made up doubly for their defeat at the hands of the Miamians by taking the .45 caliber four-man match with a score of 1072 . . . the Maryland Pistol Club 1043, a surprisingly large separation between first and second place winners . . .

Immediately the aggregate bulletin was posted anxious competitors gathered to look for their name among high twenty-five, whose reward, in addition to the usual cash and medal awards was to be the Cuban trip . . . Leading was Emmett Jones, his total for the seven matches 1557 . . . this three points below last year's aggregate score, in which Wyman, Askins and Engbrecht tied . . .

Havana

That morning we were early at the ship's rail, looking off to the broken outline of Cuba's North shore and the scarcely discernible silhouette against a grey rain-sky that was Havana . . . El Morro and pink Cabaña fortress slipped by on our left and we coasted up into the harbor, past rows of arcaded buildings along the Malecon . . . a city of white and cream with yellow and orange overtones, splashed with blue and red on door and roof . . .

As we neared the dock a plane dove and circled above the boat, official greeting and good omen of the hospitality and pleasant days in store for us . . . The gap of greasy water narrowed and we could pick out "our own" group among the crowd, Gustavo, Tom Perez, Garmendia, Captain Lopez, many others, new found friends made in Tampa . . .

A taxi to our hotel, "La Union", the driver, apparently as a matter of professional honor, never deliberately avoiding a near-accident, seeing how closely he could miss vehicles and yet not scratch a fender . . . in and out of strangely mixed traffic, cars, pushcarts, streetcars and leisurely pedestrians, and we were truly in Cuba, drinking a Daiquiri at the hotel bar . . .

Fifteen Policia squad cars, blue canvas-topped Fords, were detailed to us for the duration of our stay.

Impatient to see the Casino Deportivo, we drove off to the range that afternoon, though no matches were scheduled until next day . . . It in no way disappointed us, this million-and-a-half dollar club. Built as a kindly gesture to the people of the city of Havana by Sr. Alfredo Hornedo y Suarez it provides for Havanaites an inexpensive means of enjoying any of the American sports on a dozen or more game fields and in a club house equalling our most pretentious millionaires' country clubs . . . After our own country, the

membership rates made us a bit wistful . . . three dollars per month for bachelors, five dollars for families, giving full privileges . . .

The pistol range, adjoining the trap and live pigeon fields, we found to be an excellent layout, high three-sided cement backstop, gravel firing points and moving targets copies from those at Tampa . . .

The course of the introductory match was to have been 60 shots at 50 meters within a limit of two hours, but was changed to thirty shots in half that time. Emmett Jones, "still shaky from a flu attack", won with a total of 252 . . .

The glare of Cuban sun on white gravel firing points, doubly wide for use at yard and meter distances, caused light conditions different from any other range . . . Its effect on film was particularly noticeable: lenses could be stopped down as far as possible with fast shutter time and good exposures would still result . . .

At this shoot American competitors tried for the first time in years Olympic and International course events . . . The second match, fired on silhouette targets, consisted of eliminating by decreasing the time from 8 to 6, 4, 3 and 2 seconds for hits on each of six targets . . .

Askins alone "went clean" through the three second string but he loaded seven shots for each stage and by quick thinking, cleared a jam in his eight second string fast enough to still land six shots on his targets. His score was protested on this point and until a decision comes from the Olympic committee on the validity of his action, the winner, Askins or Ferril, must remain in doubt . . . Whatever the final decision from Paris the fact remains that Ferril equalled the world's record when in the shoot-off for second place he scored six hits in 2 seconds!

Another match unfamiliar to our shooters was the 25-Meter slow-fire 30 shot event, on the "Central American and Caribbean Olympic" target, its highest value a two-inch 5-ring. Emmett Jones finished first with 126 and Ernesto Hertero, a Camaguey attorney, second . . .

An open air bar stood back of the line . . . Jake Engbrecht was not hard to persuade to join us in a Daiquiri. Jake, thirsty, took his in a single swallow. After it was down, a strange, startled look came over his usually quiet face . . . We tasted ours. They were decidedly peculiar . . . The bartender admitted his mistake of making them with salt instead of sugar . . .

Mark Wheeler, whose liking for snakes brought him the title of "Snake Tamer", took the 50-yard slow-fire match, made more of an endurance feat by calling for thirty shots instead of the usual twenty, on a score of 280 . . .

Nicknames were a part of the constant play of jokes on the range, and few were

those who did not receive one . . . "Too-many-shots" Quevedo, who fired a score to be proud of and found that a practicing neighbor had scattered ten more on the target . . . Gustavo "Ants in the pants" Alfonso, always busy, one minute helping at the target lever, next directing the girls in the statistical office . . .

The mildest mannered of many we met proved to have led wildly adventurous lives during the days of the first and second revolutions . . .

The .38 National Match Course carried as its award the most desirable trophy we have seen . . . a gold watch inscribed to the winner and in enamel on the back the red bat trade-mark seal of its donor, the Bacardi Company . . . Emmett Jones, still winning, numbered it among his possessions when he sailed for home . . .

Kansas City's O'Connor outfired the rest in the .38 timed-fire match and Walter Stark, one time Marine, on his first trip to the East as a member of the Los Angeles Police team, took the .38 rapid . . .

Recreation in Havana is easily found . . . The great National Casino, rival of Monte Carlo; visits to ancient cathedrals; night clubs in the American style; miles of walks through tropical gardens; sidewalk cafes where one may dine and watch young Cuba promenade . . . Sans Souci, a starlit patio, Cuban music and soft lights . . . Morro Castle's underground vaults and the blazing sun on modern beaches . . . Whatever your tastes Cuba can satisfy them in full measure . . .

A four-man team event went to the L.A. team . . . the .22 caliber Individual National Match Course, one more feather in Emmett Jones' cap . . .

The last match, reminiscent of Old World competition, is a carry-over from the duelling practice of our ancestors: firing at man-size targets in a one-and-a-half second time limit until all but nine competitors are eliminated by a miss-and-out system, the final stage fired in pairs, one against the other, changing so that all fire once with each of the other eight. Scores are on a basis of one point for hits and an added quarter-point for the one shooting first . . .

Cubans outshot Americans for three out of four top places; Charles Rodriguez Feo, F. Gonzalez Roig, Mark Wheeler and Joachim Pedroso, in order . . .

* * *

The shooting was over, and we turned again into the Gulf Stream but this time watching Cuba go down into the horizon over the aft rail, going back to reality and the serious business of living after an interval in an unreal tropical world, leaving the warmth of a friendly nation's and our own common interest in *armas de tiro* . . .

SIXTH ANNUAL MID-WINTER SMALL BORE RIFLE TOURNAMENT

St. Petersburg, Fla., March 3-7, 1937

Match No. 1, Southeastern Small Bore Championship

1. Kenneth Recker, Winter Haven, Fla.....	989
2. E. N. Moor, Detroit, Mich.....	986
3. W. H. Womack, Shreveport, La.....	982
4. C. H. Vincent, Utica, Mich.....	979
5. R. C. Pope, Dallas, Texas.....	978
6. H. J. E. Reid, Hampton, Va.....	977
7. W. B. Woodring, Alton, Ill.....	977
8. C. G. Hamby, Atlanta, Ga.....	976
9. W. P. Schweitzer, Hillside, N. J.....	976
10. G. W. Lewallen, St. Petersburg, Fla.....	974

Match No. 2, National Mid-Winter Small Bore Championship

1. Kenneth Recker, Winter Haven, Fla.....	1973
2. E. N. Moor, Detroit, Mich.....	1969
3. R. C. Pope, Dallas, Texas.....	1969
4. C. G. Hamby, Atlanta, Ga.....	1966
5. W. H. Womack, Shreveport, La.....	1966
6. Thurman Randle, Dallas, Texas.....	1963
7. W. B. Woodring, Alton, Ill.....	1961
8. Wes. Hansche, Racine, Wis.....	1957
9. H. J. E. Reid, Hampton, Va.....	1955
10. W. P. Schweitzer, Hillside, N. J.....	1955

Match No. 3, Individual 50-Meter Metallic Sights	
1. Kenneth Recker, Winter Haven, Fla.....	397
2. E. N. Moor, Detroit, Mich.....	397
3. W. H. Womack, Shreveport, La.....	397
4. J. A. Noxon, Hyde Park, N. Y.....	396
5. R. C. Pope, Dallas, Texas.....	396

Match No. 4, 50-Meter Two-Man Team Metallic Sights	
1. R. C. Pope, Dallas, Texas.....	397
Thurman Randle, Dallas, Texas.....	198
2. Wes. Hansche, Racine, Wis.....	394
Wm. P. Schweitzer, Hillside, N. J.....	197
3. W. H. Womack, East Alton, Ill.....	393
Everett Warnes, Paris, Ill.....	195
4. Kenneth Recker, Winter Haven, Fla.....	393
L. W. Abrams, Clearwater, Fla.....	195
5. E. M. McLean, Bradford, Penn.....	392
G. D. Blakeslee, Lewis Run, Penn.....	197

Match No. 5, Individual Short Range Match

1. Thurman Randle, Dallas, Texas.....	399
2. Wes. Hansche, Racine, Wis.....	399
3. Wm. P. Schweitzer, Hillside, N. J.....	398
4. R. C. Pope, Dallas, Texas.....	398
5. M. A. Cooper, Rome, Ga.....	398

Match No. 6, Individual 50-Yard Match

1. Chas. G. Hamby, Atlanta, Ga.....	400
2. Kenneth Recker, Winter Haven, Fla.....	400
3. G. W. Lewallen, St. Petersburg, Fla.....	399
4. Wes. Hansche, Racine, Wis.....	399
5. Wm. P. Schweitzer, Hillside, N. J.....	399

Match No. 7, 50-Meter. Any Sights

1. W. B. Woodring, Alton, Ill.....	399
2. R. C. Pope, Dallas, Texas.....	399
3. W. H. Womack, Shreveport, La.....	399
4. E. N. Moor, Detroit, Mich.....	399
5. Chas. G. Hamby, Atlanta, Ga.....	399

Match No. 8, Wimbledon Match

1. T. F. Bridgland, St. Petersburg, Fla.....	195
2. Chas. G. Hamby, Atlanta, Ga.....	194
3. R. C. Pope, Dallas, Texas.....	194
4. Thurman Randle, Dallas, Texas.....	193
5. G. D. Blakeslee, Lewis Run, Penn.....	192

Match No. 9, "St. Petersburg Special"

1. G. W. Lewallen, St. Petersburg, Fla.....	397
2. E. H. Wayland, Miami, Fla.....	396
3. McLeod Greathouse, Ft. Worth, Texas.....	396
4. Wm. P. Schweitzer, Hillside, N. J.....	396
5. E. E. Sellers, Anniston, Ala.....	396

Match No. 10, Individual Long Range Match

1. Kenneth Recker, Winter Haven, Fla.....	195
2. G. W. Lewallen, St. Petersburg, Fla.....	194
3. Everett Warnes, Paris, Ill.....	193
4. H. J. E. Reid, Hampton, Va.....	192
5. E. M. McLean, Bradford, Penn.....	192

Match No. 11, Short Range Two-Man Team

	Ind.	Team
	Score	Total
1. Thurman Randle, Dallas, Texas.....	398	797
R. C. Pope, Dallas, Texas.....	399	
2. V. J. Tiefenbrunn, St. Louis, Mo.....	396	798
W. B. Woodring, Alton, Ill.....	400	
3. Minnie McCoy, Akron, Ohio.....	398	796
Flossie Anson, Akron, Ohio.....	398	

Match No. 12, Swiss Match

1. Chas. Hamby, Atlanta, Ga.....	99
2. J. A. Noxon, Hyde Park, N. Y.....	63
3. Wm. P. Schweitzer, Hillside, N. J.....	40
4. H. J. E. Reid, Hampton, Va.....	34
5. W. H. Womack, Shreveport, La.....	22

Match No. 13, Individual 100-Yard Match

1. Minnie McCoy, Akron, Ohio.....	399
2. V. J. Tiefenbrunn, St. Louis, Mo.....	398
3. M. A. Cooper, Rome, Ga.....	397
4. C. L. Woodworth, Athens, Ohio.....	397
5. W. B. Woodring, Alton, Ill.....	397

Match No. 14, Individual Dewar Match

1. R. C. Pope, Dallas, Texas.....	399
2. Chas. G. Hamby, Atlanta, Ga.....	398
3. E. N. Moor, Detroit, Mich.....	398
4. J. A. Noxon, Hyde Park, N. Y.....	398
5. Chas. Reichen, Orlando, Fla.....	398

Match No. 15, Long Range Two-Man Team

1. T. F. Bridgland, St. Petersburg, Fla.....	389
E. A. Comer, St. Petersburg, Fla.....	197
2. Thurman Randle, Dallas, Texas.....	388
R. C. Pope, Dallas, Texas.....	196
3. E. M. McLean, Bradford, Penn.....	385
G. D. Blakeslee, Lewis Run, Penn.....	192

Match No. 16, Interstate Team Match

1. Texas State Team:	
Thurman Randle.....	295
R. C. Pope.....	296
A. L. Knight.....	292
McLeod Greathouse.....	294
Total.....	1177

2. Sunshine Rifle Club No. 1.....	1171
3. Florida State Team No. 1.....	1161
4. Illinois State Team No. 1.....	1161
5. Pennsylvania State Team.....	1159

SIXTH ANNUAL MID-WINTER CHAM- PIONSHIP PISTOL TOURNAMENT

Tampa, Fla., March 8-11, 1937

Match No. 1, .22 Caliber Slow Fire Match

1. Major Wm. P. Richards, U.S.M.C.....	188
2. W. R. Walsh, F.B.I.....	184
3. M. E. Wheeler, Los Angeles Police.....	183
4. F. M. O'Connor, Kansas City Police.....	183
5. Pat H. Baldwin, Miami Police.....	183

Match No. 2, .22 Caliber Pistol Championship

1. W. R. Walsh, F.B.I.....	289
2. Major W. P. Richards, U.S.M.C.....	288
3. L. D. Knesek, U.S.I. Border Patrol.....	286
4. F. M. O'Connor, Kansas City Police.....	285
5. J. J. Engbrecht, Los Angeles Police.....	283

Match No. 3, .38 Caliber Slow Fire Match

1. Pat Baldwin, Miami Police.....	186
2. W. R. Walsh, F.B.I.....	186
3. W. H. Hall, Savannah Police.....	185
4. M. E. Gurnea, F.B.I.....	182
5. F. M. O'Connor, Kansas City Police.....	182

Match No. 4, Two-Man Team Match Championship

	Team	Total
1. M. E. Wheeler } E. E. Jones }	Los Angeles Police.....	558
2. J. J. Engbrecht } L. J. Young }	Los Angeles Police.....	556
3. C. E. Coffin } R. W. Scott }	Washington Pistol Club.....	553

Match No. 5, .38 Caliber Timed-Fire Match

1. E. E. Jones, Los Angeles, Police.....	196
2. Roger Scott, Washington Pistol Club.....	194
3. J. J. Engbrecht, Los Angeles Police.....	194
4. W. R. Walsh, F.B.I.....	194
5. F. M. O'Connor, Kansas City Police.....	193

Match No. 6, Individual Police

1. W. R. Walsh, F.B.I.....	282
2. J. J. Engbrecht, Los Angeles Police.....	280
3. Chas. Askins, U.S.I. Border Patrol.....	280
4. L. D. Knesek, U.S.I. Border Patrol.....	279
5. L. J. Young, Los Angeles Police.....	276

Match No. 7, .38 Caliber Rapid-Fire Match

1. F. M. O'Connor, Kansas City Police.....	188
2. R. Wilzewski, U. S. Air Force.....	188
3. Chas. Askins, U.S.I. Border Patrol.....	185
4. M. Quevedo, ANTC, Cuba.....	185
5. W. R. Walsh, F.B.I.....	184

Match No. 8, 4-Man Police Team Championship

1. U. S. Immigration Border Patrol Team No. 1	
L. D. Knesek.....	283
W. J. Davis.....	286
Chas. Askins.....	275
R. P. Jackson.....	278
Total.....	1122

2. Miami Police Department.....	1110
3. Los Angeles Police Department.....	1110

Match No. 9, Individual Open Pistol Championship

1. L. J. Young, Los Angeles Police.....	285
2. E. E. Jones, Los Angeles Police.....	284
3. W. R. Stark, Los Angeles Police.....	277
4. F. M. O'Connor, Kansas City Police.....	277
5. W. R. Walsh, F.B.I.....	276

Match No. 10, 4-Man Team Championship

1. Los Angeles Police	
J. J. Engbrecht.....	282
L. J. Young.....	279
E. E. Jones.....	278
M. E. Wheeler.....	278
Total.....	1117

2. U. S. Immigration Border Patrol Team	
No. 1.....	1091
3. Federal Bureau of Investigation.....	1084

Match No. 11, .45 Caliber Pistol Championship

1. H. L. Gau, Maryland Pistol Club.....	271
2. W. A. Hedden, U. S. Army.....	271
3. M. E. Wheeler, Los Angeles Police.....	270
4. J. J. Engbrecht, Los Angeles Police.....	268
5. F. R. Loyd, Capt. 24 Infantry.....	266

Match No. 12, .45 Caliber Four-Man Team Championship

1. Los Angeles Police	
J. J. Engbrecht.....	270
E. E. Jones.....	267
M. E. Wheeler.....	270
Joe Dirks.....	265
Total.....	1072

2. Maryland Pistol Club.....	1043
3. U. S. Immigration Border Patrol.....	1023

Match No. 13, National Mid-Winter All Around Pistol Championship

1. E. E. Jones.....	1557
2. J. J. Engbrecht.....	1554
3. F. M. O'Connor.....	1550
4. M. E. Wheeler.....	1548
5. W. R. Walsh.....	1546
6. Joe Dircks.....	1542
7. Walter Stark.....	1534
8. L. D. Knesek.....	1533
9. L. J. Young.....	1532
10. Maj. W. A. Hedden.....	1531

PAN-AMERICAN INTERNATIONAL PISTOL MATCHES

Havana, Cuba, March 17-20, 1937

Match No. 1, Individual International Slow Fire Match

Course: 30 Shots, Slow Fire at 50 Meters,

1. E. E. Jones, Los Angeles Police.....	252
2. Joe Dircks, Los Angeles Police.....	251
3. L. D. Knesek, U. S. Border Patrol.....	248
4. Pat Baldwin, Miami Police.....	247
5. W. R. Walsh, F.B.I.....	246

Match No. 2, Olympic Individual Rapid Fire Match

Course: 3 Strings of 6 Shots at 6 Silhouettes Targets (one shot at each silhouette) at 25 Meters Distance

1. Charles Askins, U. S. Border Patrol.....	36
2. Lloyd G. Ferril, Kansas City Police.....	35
3. Walter R. Walsh, F.B.I.....	35
4. L. D. Knesek, U. S. Border Patrol, Texas.....	35
5. Ernesto Herrero, A.N.T.C. Cuba.....	35

Match No. 3, Individual Slow Fire 25 Meters Central America and Caribbean Pistol Match

1. E. E. Jones, Los Angeles Police.....	126
2. E. Herrero, Civil Cuba.....	124
3. L. J. Young, Los Angeles Police.....	123
4. T. R. Maxwell, Baltimore Police.....	123
5. Roger Scott, Washington, D. C.....	123

Match No. 4, Individual Slow Fire Match

Course: 30 Shots in 30 Minutes Slow Fire at 50 Yards

1. M. E. Wheeler, Los Angeles Police.....	280
2. Charles Askins, U. S. Immigration B.....	280
3. Joseph Franano, Kansas City Police.....	270
4. Francis O'Connor, Kansas City, Mo.....	268
5. J. Engbrecht, Los Angeles Police.....	267

Match No. 5, Individual 38 Cal. Pistol Match

Course: National Pistol Match Course

1. E. E. Jones, Los Angeles Police.....	285
2. Charles Askins, U.S.I. Border Patrol.....	283
3. Francis O'Connor, Kansas City, Mo.....	281
4. W. R. Stark, Los Angeles Police.....	280
5. T. R. Maxwell, Baltimore Police.....	278

Match No. 6, Individual Timed Fire Match

1. Francis O'Connor, Kansas City Police.....	196
2. J. J. Engbrecht, Los Angeles Police.....	194
3. M. E. Wheeler, Los Angeles Police.....	194
4. Bob Geesey, York, Pa. Police.....	194
5. T. R. Maxwell, Baltimore Police.....	194

Match No. 7, Individual Rapid Fire Match

1. W. R. Stark, Los Angeles Police.....	183
2. E. E. Jones, Los Angeles Police.....	183
3. Lee J. Young, Los Angeles Police.....	183
4. Francis M. O'Connor, Kansas City Police.....	181
5. T. R. Maxwell, Baltimore Police.....	176

Match No. 8, Pan-American International Team Championship

Course: Camp Perry Police Course at 25 Yards

I. Los Angeles Police:		Ind. Score
J. J. Engbrecht.....	286	
L. J. Young.....	267	
E. E. Jones.....	290	
M. E. Wheeler.....	285	
Total.....	1128	
2. U. S. Border Patrol.....	1090	
3. Gadget Hounds of America.....	1089	

Match No. 9, .22 Cal. Individual Champ

1. E. E. Jones, Los Angeles Police.....	287
2. M. E. Wheeler, Los Angeles Police.....	283
3. Francis O' Connor, Kansas City Police.....	282
4. L. D. Knesek, U. S. Border Patrol.....	278
5. Smitty Brown, Tampa Civ.....	278

Match No. 10, Individual Duelling Championship

1. Charles Rodriguez Feo, A.N.T.C. Cuba.....	16½
2. F. Gonzalez Roig, A.N.T.C. Cuba.....	16½
3. M. E. Wheeler, Los Angeles Police.....	16½
4. Joaquin Pedrosa, A.N.T.C. Cuba.....	16½
5. Charles Askins, U. S. Border Patrol.....	15¾

Match No. 11, Individual International Pan-American Pistol Championship

1. E. E. Jones, Los Angeles Police.....	1589
2. Francis O'Connor, Kansas City Police.....	1559
3. Charles Askins, U. S. Border Patrol.....	1558
4. M. E. Wheeler, Los Angeles Police.....	1549
5. L. J. Young, Los Angeles Police.....	1530
6. J. J. Engbrecht, Los Angeles Police.....	1526
7. L. D. Knesek, Border Patrol.....	1522
8. W. R. Stark, Los Angeles Police.....	1521
9. T. R. Maxwell, Baltimore Police.....	1515
10. J. A. Dircks, Los Angeles Police.....	1511

THE FARROW RIFLE

(Continued from page 15)

it was quite similar to the Ballard breech-block. While the breech-block of the Farrow rifle was not as thick as that of the Winchester S. S., Mr. Farrow claimed that it was fully as strong, as it was made of a special steel which was the toughest and strongest then known. The grooves in the receiver in which the breech-block moved offered greater support than in the case of the Winchester. The hammer was centrally hung in the breech-block, and dropped down below the entrance to the chamber when the action was opened, and when closed the tip of the hammer projected only slightly above the top of the receiver—just enough to enable one to cock the hammer. The illustrations show that the axis of the bore was much lower in the receiver than was the case with other single-shot arms, and this feature added to the strength of the action.

It will be seen that when the action was opened the top of the hammer lay close in front of the trigger, leaving nothing to interfere with the cleaning of the rifle from the breech, examining the bore, or inserting the cartridge in the chamber. The extractor was strong, functioned properly, and easily removed a sticking case. The stock was attached to the receiver by a strong through-bolt that screwed into the rear of the receiver, as in the Ballard rifle. Most of the Farrow rifles that I have seen were stocked with very fine-grained burl walnut. The rifle was very

symmetrical, with very pleasing lines, and balanced beautifully. These rifles were made with double-set or single trigger as desired, and the long-range arms carried a sight base back on the heel of the stock so that the Vernier sight could be placed close to the eye when shooting from the various back positions then used for long-range work.

The rifle illustrated herewith has a 30-inch full-octagon barrel, though many of them were made with half-octagon barrels, as that style was very popular in days past. The rifle illustrated is .32-40 Remington caliber, which really is a .30 caliber, as the bullets used are but .308 or .309 inch in diameter instead of .319 or .320, which is the standard for other makes of .32-40 bullets. This .32-40 Remington was one of Mr. Farrow's favorite cartridges, and I have often heard it stated that he was the originator of it, although I cannot vouch for the truth of that statement. However, from the records in the office of the Remington Arms Co., at Bridgeport, Conn., we do know that Mr. Farrow was the originator of the .32-30 Remington cartridge, which is now very rarely seen but which was really far superior to the .32-20 C. F. cartridge that is still with us.

Some may wonder why this .32-40 Remington rifle shown should have had a sight base back on the heel of the stock. Well, it is a fact that this cartridge, when loaded with first-class black powder or Kings Semi-Smokeless, and a 175-grain paper-patched bullet, would in the hands of an expert make fine scores at 500 and 600 yards under favorable weather conditions; and this particular rifle was evidently made for use at both 200 yards and the "mid ranges"—500 and 600 yards, as they were called in those days.

It is not known how many Farrow rifles were made during all the years of their manufacture, but they are scarce today. Some two years ago in conversation with my friend Shiff the Gunman of North Woodstock, N. H., the latter brought up the matter of the Farrow rifle, and inquired about the action and the arm in general. He has been an arms dealer for more than twenty-five years, and as such has handled many hundreds of arms of all kinds each year; yet up to that time he had never seen a Farrow rifle. Advertisements and inquiries during the past two years or more have resulted in his purchase of only two Farrow rifles to date, and through his courtesy the accompanying illustrations of one of them have been made possible. They are from photographs taken by the writer. The rifle shown was in almost perfect condition, with a beautifully grained burl walnut stock, and had evidently been a highly prized arm of some rifleman of the old days.

During the latter years of his life Mr. Farrow had a small shop at West Palm Beach, Florida, where he made these rifles until he was nearly 80 years old. He was very ingenious and very skilful, and specialized in making inventors' models as well as making and repairing rifles. Unfortunately, some five or six years before his death a cyclone wrecked the shop and most of the machinery, ending the manufacture of the Farrow rifle.

HOME-MADE RELOADING OUTFIT

(Continued from page 29)

adjustment nuts for balancing the beam are made of brass.

Grain weights can be bought through most corner drug stores, and cost a little over a dollar for a complete set. My scales will deflect 9/32" for an increase of 1/10 grain in weight, which is close enough. It is necessary to set the balance of the scales each time a group of shells are loaded, and as a precaution I recheck this setting after finishing the loading, to make sure that it did not change.

Hand-loading opens up a field of very interesting experimental shooting, and the .30-'06 rifle is an excellent one to work with. There are a great variety of bullets to fit this cartridge, and dozens of combinations of trajectory, power, and penetration can be had. The thing we are all striving for is a load that will give good accuracy, flat trajectory, and safety from ricochets. The chance that the next combination we try will be the ideal one always keeps it interesting.

AN INTIMATE VIEW OF AFRICA

(Continued from page 10)

was startled by hearing someone yell and a buffalo grunt. Looking around I saw our native boy running a few yards behind us with his chest out and like a sprinter going about seven flat, a big bull buffalo right behind him with his head lowered, and both headed straight for us. One of the white boys and myself quickly jumped behind a little bush, but no protection, and the fellow with the 9 mm., a Mr. Bloomheim, went by us in six flat. I shot at 60 feet and slightly turned the buffalo, and put in two more bullets quickly and he plowed up the ground. He was running full speed, and I stepped the distance from where the first shot landed to where he collapsed, and it was just 40 feet. He was a fine big fellow with a 47-inch spread, but I would not have killed him if it had not been necessary.

So in all we have had an unusually lucky and good time, especially myself. We were in practically an untouched country with wild beasts by the hundreds of thousands. I don't mean tens of thousands, but hundreds of thousands.

A MORE POWERFUL RIM-FIRE

(Continued from page 19)

Some of my manufacturer friends tell me that they fear danger from bursting rim-fire cases. Buyers of .22 high-speed rim-fire ammunition are warned to use them in only up-to-date actions. It might be necessary to build new solid-top actions, or specially design other actions against danger from bursting cases. Revolver makers encountered the same problem in their .22-caliber arms, and solved it by recessing the cylinders.

What would be the best caliber for our more powerful rim-fire cartridge? Obviously, its limit in any bore would be the strength of the case. Personally, I rather doubt if the .25 Stevens, speeded up, would be sufficiently powerful to make it load enough for a great part of our vermin shooting. As for the standard .32 rim-fire, there are too many ancient Remington, Stevens, and Marlin rifles in this caliber standing around to make it safe to speed up this cartridge. Therefore either the bullet diameter would have to be changed or the case made longer. The caliber could be .30 or more, possibly even as much as .35. Manufacturers would determine the best balance between low cost and sufficient power.

The bullets used would vary according to the needs of the shooter. The farmer or rancher frequently shooting vermin at long range would call for a bullet that would show the best accuracy between 100 and 200 yards. The woodchuck shooter in closely settled communities, on the other hand, would want a bullet that would fly to pieces upon hitting just dirt, and with maximum shocking power under 100 yards.

STILL STRONG AT SIXTY

(Continued from page 11)

side of the paper, and the patterns at 60 yards should have had a larger circle.

Further curiosity tempted us to try the Greener out at 100 yards, but all we had left in the way of paper were stiff white sheets of cardboard, 22 by 28 inches. Only one shot was fired with each type of shell, and that from the left barrel, with the following patterns:

Winchester Speed: 5 shot fairly well scattered;

New Club: 10 shot, at top and bottom of cardboard;

Climax Heavies: 26 shot well scattered over board, with even spaces between pellets;

Climax: 20 shot, scattered and in patches.

BLACK-POWDER SMOKE

(Continued from page 14)

heads off these pigeons, which would drop fluttering down to the sidewalk—greatly to the alarm of lady pedestrians who happened to be passing. Why the town constable never interfered, I never could understand, because it was a risky business.

I recall another "feat" of old man West's which I witnessed. In "between customers" he would tilt back in an old armchair, "borrowed" from the hotel porch. One day while he was thus occupied a flock of chickens appeared in the middle of the street, fully a block away. Old John, with a grin, reached for his rifle, took quick aim, fired, and the hens scattered—all but one, which flopped about until old man West sauntered up, wrung its neck, and brought it back to his stand, with the remark: "Fried chicken fer supper tonight!"

There was quite a variety of game in that section in those days. Black and gray squirrels were numerous in certain patches of timber, and partridges (ruffed grouse) were quite plentiful. Rabbits also were good hunting, and occasionally a red fox fell before some lucky hunter's aim. Nobody ever thought of looking for such large game as deer or bear, yet within the last two years many deer have worked up into that county from Pennsylvania, and an occasional black bear has been spotted snooping about. There were no quail in that section.

Referring once more to old John West, his "shooting gallery" was a great hangout for a dozen or twenty kids. To get rid of them old John would allow every boy two shots from his Ballard rifle, and the one who made a bullseye was allowed two extra shots. At that time I was not old enough or strong enough to hold the rifle at arm's length, so I was allowed a rest across an old barrel. I was a good shot for a kid, and it was mighty seldom that I missed getting those two extra shots.

"Good kid," old John would say, patting me affectionately on the back. "Keep on like that, and some day you'll make a sharpshooter."

Those grand old days are gone! In the twilight of my life I sit here penning something which may interest the rising generation of youngsters—or may not. Be that as it may, we of the old black-powder era experienced wonderfully beautiful days in field and wood, and up and down little brawling streams—rifle in hand. Even now I seem to hear the sharp whistle of a hoary-headed old woodchuck, as he rises on his hind legs for a rapid glance about, while my heart begins pounding as I cautiously thrust the muzzle of that old Union Hill Ballard across the top rail of the old "snake fence."

Will it be hit or miss?

THE D. C. M. REPORTS

Ammunition for Sale

A LETTER from the Director of Civilian Marksmanship states:

"The Ordnance Department has for sale through the D. C. M. at \$1.00 per thousand the following amounts of caliber .22 ammunition, spotlight, short:

Benicia	30,000
Curtis Bay	120,030
Charleston	77,487
Raritan	130,508
San Antonio	75,450
Savannah	248,090

This ammunition is approximately five years old. It makes a light when the bullet strikes the target.

A recent firing test of these cartridges, consisting of 50 rounds, gave the following results:

Forty-eight rds. accurately hit the target and were satisfactory, 2 rds. misfired, but after giving the misfired rounds a quarter turn, they fired satisfactorily on the second firing.

It is the desire of the Ordnance Department to dispose of these cartridges through the Director of Civilian Marksmanship to members of the National Rifle Association.

National Match Springfields Available

U. S. Rifles, Caliber .30, M1903, Style NM (1937 National Match Springfield Rifles) will be available for sale on orders approved by the Director of Civilian Marksmanship to individual members of the National Rifle Association on or about June 1, 1937. Price \$53.10 each, plus the usual packing charge of \$1.35 and tax of \$5.45; total \$59.90.

Signatures on D. C. M. Shipping Tickets

Shipping tickets covering the issue of equipment and supplies to civilian rifle clubs by the Director of Civilian Marksmanship are required to be signed in ink by the secretary or other official receiving the material, and forwarded to the office of the Director of Civilian Marksmanship, Navy Building, 19th and Constitution Avenue N. W., Washington, D. C., immediately on receipt of supplies. These signed shipping tickets become vouchers to the stock record account of this office, and pencil signatures are not authorized.

NEW CLOSING DATE

AS ANNOUNCED in a recent issue of THE RIFLEMAN it has been necessary to advance our closing date from the 10th of the preceding month to the 5th commencing with May. For this reason be sure your articles, etc., are mailed so as to reach Washington before we go to press on the new schedule.

BEVERLY RIFLE CLUB'S JUNIOR SHOOT

IN THE second annual junior match sponsored by the Beverly (Mass.) rifle and revolver club, April 3, the attendance proved even larger than anticipated, with every firing point being filled during the entire afternoon. The surprising feature of the shoot was the performance of the sharpshooting Annie Oakleys of the district, who outshot the boys in nearly every event. First and second places in the team match went to girls, and of the five competition medals for both boys and girls, four were taken by the girls.

In the four-man team match, the Malden High School girls repeated their performance of last year and won out over the eight other teams entered with a score of 783; the Beverly girls' number one team, shooting a 762, finished second and the Malden High School boys with a 761 came in third.

The individual honors went to three girls, Miss Sally Thurman, Miss Woodbury and Miss Bill, all members of the Malden High Team.

THE NEW HAMPSHIRE STATE GALLERY MATCHES

ONE hundred and thirty pistol shooters, representing the four states of Maine, New Hampshire, Vermont and Massachusetts, were registered in the second annual New Hampshire Gallery Pistol Championships held on March 13 and 14 at the state armory in Manchester. The matches, sponsored by the New Hampshire State Association and conducted by the Wilson Hill Pistol Club, proved to be the "largest thing of its kind to ever take place in northern New England." Shooters came all the way from Portland, Me., Montpelier, Vt., and from the Canadian border town of Pittsburgh, N. H., to compete.

The club was handicapped in having but six firing points available, but by keeping these busy continually for fourteen hours each day, some 1100 targets were finally fired. Such congestion, scarcely anticipated by the newly organized state association, was responsible for several teams and individuals being turned away.

In the five-man team match which attracted sixteen teams, the Boston Rifle and Revolver Club placed first with a score of 815 x 1000 over the 50-foot slow-fire course. The Portsmouth Piscataqua Club was second with an 808 and the Nashua (N. H.) Club third.

T. Berdeen, of the Portsmouth Navy Yard, took first place in the slow-fire New Hampshire individual championship event with the creditable scores of 88 and 96 to finish seven points ahead of his nearest competitor. The tyro event, won by A. D.

Murray of Charlotte, Vt., also brought out some good shooting with scores of 88 for first place, an 86 fired by A. Lear of Derry, N. H., for second, and an 85 by A. Saunders which placed him third.

The Moreau trophy match was won by David Dalton of the Newton (Mass.) police force. The score of 100 x 100 fired by a Boston policeman, E. Culkin, on the local 15-yard police target, placed him first in the New Hampshire police championship match.

NORTH CENTRAL OHIO MATCHES

AN INCREASE of twenty-eight competitors over last year's entrants in the N. C. O. Matches at Ashland, Ohio, bringing the total to fifty-seven, marked the indoor ten match program sponsored by the Ashland rifle and pistol club. In this eighth annual event, both the number of competitors and the high scores made the match an outstanding success, with plenty of new competitors crowding the veterans for places and medals.

I. N. Wagner of Ashland was the only 1936 winner to repeat this year, successfully defending his .22 caliber pistol record.

Coming back into match competition after a lay-off, L. Bender, of Galion, made an excellent showing in the three stage rifle match with scores of 99 pr., 97 kn., and 96 st. Leo Arntz, captain of last year's Ohio civilian team at Camp Perry and a former member of the Ohio National Guard State team, proved his outstanding marksmanship by firing a perfect score in the iron sight prone match of thirty shots, and continued firing until he went out on the 111th shot.

GUNS REPORTED STOLEN

A new Prewar Luger 9 m/m pistol #31347 and .44 Colt single action army revolver #75354 stolen March 13. Report any information on these guns to A. H. Tuttle, 38 Meredith St., Springfield, Mass. Charles H. Piper, 3946 Barrypoint Rd., Lyons, Ill., reports the loss of his .22 Colt Automatic Target Pistol #38275 stolen from his place of business Dec. 4, 1936. Please report information direct to Mr. Piper at the above address.

Rifle, complete with Henxoldt Zielyt and Fecker #12 Power Scopes, Springfield-Mausser Sedgley-Dodge-Leonard 25 Remington Roberts in leather case. Initials T. N. W. near trigger, ivory forend gold washer between ivory and wood, ivory butt plate. Value \$455.00. Please notify Philadelphia Fire & Marine Insurance Co., 1600 Arch St., Philadelphia, Pa.

Winchester 52 #40028 and 438 Lyman scope with 1/4" mounts, stolen in Glens Falls, N. Y., on April 3. Notify Dr. Geo. Fielding, Lapham Gun Club, Glens Falls, N. Y.

The Corry (Pa.) Rod & Gun Club reports the loss of a 30:06 Rifle, number 1,293,195 R. I. Please report any information on this gun to Russell Martin, 615 E. Wayne St., Corry, Pa.

BRIDGEPORT, CONN.
MAY, 1937

Rifle *Remington* News

A PAPER FOR PEOPLE
WHO SHOOT

SWISS MATCH RECORD SET BY CHARLIE HAMBY

**"PALMA MATCH" SHOOTER GETS 99 STRAIGHT BULLS
ON 200-YARD DECIMAL TARGET AT ST. PETERSBURG**



← WINNER • RUNNER-UP →

Staying in the black for ninety-nine consecutive shots won Charlie Hamby of Atlanta top honors and a world's record in the decimal target Swiss Match at St. Petersburg's fine, new range. Captain Jim Noxon placed second with 63 bulls, and Bill Schweitzer was next in line with 40 bulls. Charlie and Bill shot Palma Match, and Jim placed his trust in the new Palma Kleanbore.

Ned Moor, Jr., of Detroit, also made a fine showing in the Southeastern and the National Mid-Winter Championship aggregates . . . placing second in both. The photos show the star-spangled competition he was up against. Ned used the new Model 37 Range-master and Palma Match ammunition.



CAPTAIN JAMES A. NOXON, RUNNER-UP, SHOOTING "PALMA KLEANBORE"

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POSSIBLES AND IMPOSSIBLES

by FRANK KAHRS



Had word from Fred Martin, secretary of the Milan Rifle and Pistol Club at Milan, Illinois. His pals Paul Poe, Al Freeland and Fred Johansen have an uncanny habit of registering their names pretty high up on the bulletins. Fred sent me the results of some of their recent matches. Everybody shot KLEANBORE in all the matches!

* * *

Out in East Liverpool, Ohio, John Gallimore won the Dr. Bailey Trophy—which changes hands twice a year—scoring 1490 x 1500. Over the Dewar course the five high men turned in a score of 1988 x 2000 (scope). Nice work for the first year!

* * *

That new Palma Kleanbore smokeless cartridge is going over in grand shape. It seems to fit well in almost any rifle, and that's rather unusual for a smokeless load.

* * *

The Sunshine Rifle and Pistol Club of St. Petersburg, Florida, have the most up-to-date small bore range I have ever seen. Mike Bridgland has done a swell job.

* * *

"VEEZ 73" and "VEEZ 37" are one and the same except for the lubricant on the bullet. If you want wax lubrication, get "VEEZ 73." If you want grease lubrication, use "VEEZ 37." I'd try 'em both!

"SHOOT A MODEL 37 IN 1937"

THE TARGET OF THE MONTH

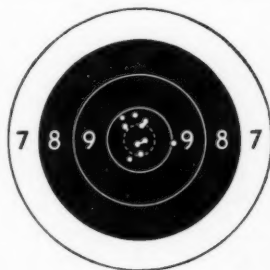
To W. H. Womack of Shreveport, Louisiana, goes this month's orchid. He shot this 10X possible at 50 yards with six-year-old Palma Match ammunition! He also took third at St. Petersburg in the 50-Meter (metallic sights), the 50-Meter (any sight), and the Southeastern Small-Bore Championship—shooting Palma Match all the way.

* * *

Each month Remington will reproduce what is its opinion "The Target of the Month." Only conditions: 1. It must be fired under N.R.A. rules. 2. Be witnessed by two people. 3. Be fired within one month previous to the time it was mailed to us. 4. Be fired with a Remington ammunition or rifle. Send "hot" targets to Frank Kahrs, Remington Arms Company, Inc., Bridgeport, Connecticut.

"KLEANBORE" TAKES FIVE FIRSTS AT "INDOOR CAMP PERRY" MEET

YOUNGSTER USES "KLEANBORE" TO GET POSSIBLE ON 1st RECORD TARGET



SAN ANTONIO, Texas—To win his American Rifleman medal last month Jack Hardie, 15-year-old of Thomas Jefferson High School, made this 6X ten-shot possible on his first record target at 100 yards! He fired but one previous practice target—a 98—before calling for his record target! Jack has all the earmarks of a comer in the shooting world. He makes fine scores, swears by Kleanbore and doesn't "blow up" on his record strings.

Ken Smith Takes H.S. Aggregate

* * *

St. Thomas Military Academy Wins High School Match Fourth Successive Year



KENNETH SMITH of Iowa City, Iowa, finished first in a field of 150 to win the National Championship in the High School Grand Aggregate—shooting Kleanbore—at Kemper Military School, Boonville, Mo. (Story at right).

BOONVILLE, Mo.—"Kleanbore" was just another way of spelling "victory" at the eighth Kemper Military School Midwest "Indoor Camp Perry" Rifle Matches.

First place in the High School Team Match went to the St. Thomas Military Academy Team No. 1 of St. Paul, Minnesota, their fourth straight win. University City (Mo.) High School took top honors in the High School Girls' Team Match. Kenneth Smith of Iowa City (Iowa) High School won the Individual Standing Match. He also took first place in the High School Grand Aggregate. J. H. Grant, Jr., of Westport High School, Kansas City, Mo., won the Individual Kneeling shoot. Every one of these first place winners shot Kleanbore ammunition.

"KLEANBORE" HAS MATCH ACCURACY AT LOW PRICE



STATE CHAMPIONSHIP GOES TO "KLEANBORE" SHOOTERS



SIDNEY, NEBRASKA.—Straight shooters—every man! This team won the Nebraska State Gallery Championship in 1936. The team included (top—left to right): Melvin Sweet, Goldwin Doran, Hubert Pearson, Clayton Parks, (and kneeling): Ed Breternitz and Don Brewer. All six men regularly rely on KLEANBORE KLEANKOTE ammunition to carry them through long, tough matches without monkeying with sight adjustments.

Progress Report on Firearms Legislation

In the following report any bills which had been previously covered are referred to only by number. If you wish to know more about the bill in question refer to the April issue of *THE RIFLEMAN*. Members are urged to contact their own Senator or Representative for more complete and up-to-date information on the status of any of the bills in this list. All members will be warned of any bills which we feel are sufficiently objectionable to warrant a concerted objection on the part of all sportsmen.

STATE LEGISLATION PENDING

California

A. 822, prohibiting the use of shotguns with not more than two shells. No further report.

A. 823, prohibiting the transfer of firearms or ammunition to minors under 16 years of age. This bill is still in.

A. 1598, relating to trap guns. This bill was passed by the Assembly on March 18th, and has been referred to the Senate.

S. 444, controlling the possession and sale of tear gas, was passed by the Senate on March 29th and has been referred to the Assembly.

S. 629, increasing the maximum penalties for the illegal use of firearms, was passed by the Senate on April 1st, and has been referred to the Assembly Committee on Fine Problems.

S. 910, exempting district attorneys and investigators from the necessity of securing concealed weapons permit, was reported favorably by the Senate Committee on Criminal Law, but killed March 23.

Colorado

H. 39, prohibiting the use of high powered arms on small game. No further report.

H. 379 The Revenue Bill. Referred to the Finance (2) Committee of the Senate, April 6.

H. 782 and 783, controlling the sale and use of firearms. No further report.

H. 864, amending the present California firearms statute. No further report.

S. 269, requiring a notice before issuing a permit to carry firearms. No further report.

Georgia

H. 840, introduced by Representative Freeman et als. and referred to the Ways and Means Committee. Is a general tax bill which covers among other things shotguns, rifles, pistols and ammunition therefor. It sets up a scale of licenses for dealers in such arms ranging from one dollar per year for dealers of shotgun shells only in towns of thirty-five hundred inhabitants or less to as much as one hundred dollars in the case of dealers in pistols and pistol ammunition in cities of fifty thousand or more inhabitants. The theory behind this measure is all right but the scale of licenses is entirely too high. They should be revised.

Illinois

S. 87 and H. 214, is a general revision of the Illinois Criminal Code. It contains several provisions which are of interest to sportsmen and dealers of firearms. It raises the maximum penalty for carrying firearms concealed on the person or in an automobile

from one year to five years. It also provides that for the second offense the penalty shall be from one to fifteen years and for the third offense from one year to life. It also provides that any officer may arrest a person without a warrant for any offense being in fact committed at the time of the arrest. Under this provision police officers and game wardens would be able to arbitrarily arrest any citizen in the hope of finding some violation of the law upon the person. The bill also contains a number of other objectionable features from the viewpoint of the gun user. It should be amended.

S. 227, introduced by Senator Menges on March 11th and referred to the Judiciary Committee, would prohibit pawnbrokers from dealing in firearms having barrels less than 20 inches in length. This bill is in keeping with the N. R. A. policy of taking pawnbrokers out of the firearms business. Reported favorably March 17th. Was amended March 24th but no further information.

Indiana

S. 228, exempting express company employees from the necessity of securing a concealed weapon permit when engaged in company business. No further report.

Iowa

H. 55, defining a machine gun as any gun with a capacity of more than ten cartridges. No further report.

Kansas

S. 318, transferring the control of a storage of explosives. Approved April 2nd.

Maine

H. 676, regulating the carrying of firearms. This bill was reported unfavorably by the House Committee on March 17th and by the Senate Committee on March 18th.

H. 1723, introduced by Representative Noyes, March 16th, and referred to the Committee on Inland Fisheries and Game. This bill relates to the hunting of raccoon, and was proposed as a result of the preparation on the four bills mentioned in the April issue.

Maryland

H. 49, regulating the use of firearms by children under the age of 18 years. No further report.

H. 475, introduced by Mr. Dennis, March 16th and referred to the Judiciary Committee. This bill has been prepared to conform with the Copeland Bill which is now under consideration by the Federal Congress. It prohibits the possession of pistols or revolvers by fugitives from justice or persons who have been convicted of a crime of violence. It requires all dealers in pistols or revolvers to notify the Clerk of the Court of a county of every sale of such arms when made. It also prohibits the pawning of pistols or revolvers. This measure would give the law-enforcement agencies the information they desire on the identity of persons owning handguns, but it would do this without a great deal of unnecessary inconvenience to the handgun owners. This bill should be adopted. Passed by the House and by the Senate, April 5th.

Massachusetts

H. 1154, regulating the use of firearms, the serial numbers of which have been destroyed. This bill has been completely re-drafted, and has been introduced in the Legislature as H. 1703 and S. 350. In its new form it has already been passed by the Senate, and has been reported favorably in the House. There is no objection to this type of firearms control legislation.

Michigan

H. 338, introduced by Mr. Post, March 17th, and referred to the Public Safety Committee would add to the board that issues firearm permits the Chief of Police of each community. This appears to be a legitimate change in the licensing for set-ups.

S. 202, introduced by Senator Pangborn, March 24th, and referred to the Conservation Committee. This is a general amendment to the Game Conservation Law, and would strengthen the power of the director of conservation as regards the hunting and killing of game.

Minnesota

H. 1436 same as S. 1194. Requires written application to purchase concealable weapons, and approval of sheriff or police chief. Referred to Crime Committee, March 18th. Reported from Senate Committee with amendment, April 1st.

H. 1407, requires persons purchasing concealable weapons to make application which goes to police chief or sheriff. Referred to Crime Committee.

Nebraska

Bill 93, regulating the use and sale of firearms, was defeated on the floor of the Nebraska legislature on March 15th. This was a very undesirable measure, and its defeat in this manner was quite fitting and proper.

New Hampshire

H. 94, revising the license fees for hunting and fishing, was killed March 4th. This bill was listed by mistake under Nebraska in the April *RIFLEMAN*.

New Jersey

A. 189, clarifying the present firearms code. No further report.

New York

A. 403, exempting applicants for licenses issued in New York City from the requirements for investigation by police authorities, was killed March 18th.

A. 529, limiting the capacity of shotguns to three shells. Amended by Assembly March 24th.

A. 536, prohibiting the carrying of loaded firearms except pistols and revolvers. No further report.

A. 546, amending the law regulating the training of dogs. No further report.

A. 689, regulating the use and possession of airguns. No further report.

A. 734, providing that firearm permits issued by the Nassau Chief of Police shall be

valid in New York City, was passed by the Assembly on March 15th, and has now been referred to the Senate Committee on Codes.

A. 779, providing for the revocation of hunting and fishing licenses in case of injury or death to another by gun fire, was passed by the Senate on March 9th and was returned to Assembly where it was reported favorably on March 24th.

A. 958, making it unlawful in Schoharie County to use any rifle larger than .22 caliber rim-fire during deer season, was amended in the Assembly on March 18th. Passed by Assembly, April 5th.

A. 1071, prohibiting the use of airguns in cities of one million population or over. No further report.

A. 1664, introduced by Assemblyman Kreinheder on March 8th and in the Senate as S. 1227 by Senator Mahoney and referred to the Committee on Codes, would prohibit the pawning of any pistol, revolver or other firearms which may be concealed upon the person, making the first offense a misdemeanor, and the second offense a felony. This measure is in keeping with the N. R. A. policy on firearms legislation.

A. 1733, introduced by Assemblyman Dollinger on March 10th and referred to the Committee on Codes, would make it unlawful for any person to sell blank cartridges or toy pistols to any person who did not have a permit from the fire department or a public official of municipality. A \$5000 liability bond required wouldn't certainly seem far out of proportion to any prospective customer for a couple of toy pistols or blank cartridges to be used in theatrical productions.

A. 1768, introduced by Assemblyman Stephens and referred to the Conservation Committee, would permit the taking of wild deer with shotgun only from November 1st, to November 15th in Putnam as well as Dutchess County. Some day some of our legislators will take the trouble to read the voluminous statistics compiled by the Pennsylvania Game Commission which show the comparative number of accidents caused by rifles and by shotguns. According to the figures shotgun accidents year after year are far more common. Reported favorably March 24th.

A. 1860, introduced by Assemblyman Foy on March 15th, and referred to the Conservation Committee is a repetition of Bill A. 1768 above, but relating to Albany County. Reported favorably March 24th.

A. 1931, introduced by Assemblyman McLaughlin, March 16th, and referred to the Committee on Codes which prohibits the unlicensed sale of fireworks, but would extend blank cartridges for theatrical or signal purposes from the provision.

A. 2022, introduced by Assemblyman Lavery, March 18th, and referred to the Committee on Villages, would permit the village of Ossining to prohibit and regulate the sale or discharge of firearms and other explosives. Reported favorably in the Assembly, March 24th.

A. 2061, amends section 1897, adds new 1897-b, Penal Law, to permit use of small caliber rifles by persons between twelve and sixteen for training purposes under supervision, guidance and instruction of qualified instructor who must be resident adult teacher or instructor in elementary or high school and experienced in use of firearms; latter is to have certificate from governing board of such school. Referred to Codes Committee. Every effort should be made to have this bill passed.

North Carolina

H. 35, the Revenue Bill, was ratified March 13th.

MAY, 1937

H. 243, regulating the use of firearms in Buncombe County, was passed by the House after extensive revision and has now been placed on the Senate Calendar.

H. 384, providing for the registration of all pistols and similar firearms. Reported unfavorably March 18th.

H. 385, amending the laws relative to automatic shotguns in Catawba County, was ratified March 13th.

H. 1111, introduced by Mr. Davis on March 10th, and referred to the Calendar would promote rifle marksmanship among unorganized militia and to defray expenses thereof. This bill was passed by the House on March 13th, and by the Senate, March 23rd. Legislatures could perform a real service for their state and for their country by adopting more legislations of this type which would promote marksmanship among civilians and infantrymen of state militia.

H. 1153, introduced by Mr. Sentelle on March 10th, prohibits the use of automatic or repeating shotguns capable of holding more than three shells in Brunswick County was passed by the House on March 12th and by the Senate on March 15th. Ratified March 20th. This bill, of course, ties in with the Federal regulations on the hunting of migratory birds.

Ohio

H. 406, regulating the hunting of squirrels. No further report.

Oklahoma

H. 584, introduced by Mr. Shoemaker, April 5th, would authorize the confiscation of autos, guns, and traps used in the illegal killing of game.

S. 251, prohibiting the use of silencers. No further report.

Pennsylvania

H. 660, prohibiting the sale of air-rifles. No further report.

H. 722, prohibiting the sale of air-rifles. No further report.

H. 846, increasing the distance from any dwelling or highway in which firearms may be discharged while hunting or trapping. No further report.

H. 1706, introduced by Mr. Schor and Finney on March 17th, and referred to the Committee on Law and Order, would amend the present Witkins Firearms Act to make it illegal to own or possess a pistol or revolver without a permit even though the gun would always be kept in the home or business establishment for protective purposes only. It would also require all possessors of regulated weapons to file their fingerprints. It would increase the license fee for concealed weapons from fifty cents to two dollars a year. As a result of this prompt and concentrated objection to this bill by N. R. A. members and other sportsmen in Pennsylvania this bill was admitted to have no chance of passage after it had first been introduced. It was one of the worst state measures introduced in 1937.

S. 193, making it unlawful to furnish air guns to minors under 16 years of age is now in the hands of the House Judiciary General Committee.

S. 212, prohibiting the manufacture or sale of air guns. No further report.

Rhode Island

H. 815, introduced by Mr. Trainor, March 24th, would tax rifle and pistol galleries as well

as bowling and similar commercialized sport centers. As long as this measure applies only to commercial shooting galleries there is no objection to it. This provision however under no condition be construed to apply to club shoots if they are sponsored by a non-profit civilian shooters organization.

H. 109, controlling the possession of pistols. No further report.

H. 603, introduced by Mr. Haynes, February 15th, is a general revenue bill. Before this measure was adopted and approved on March 5th, the provision relating to taxes on guns, rifles and ammunition were removed on February 27th.

Texas

H. 223, setting a penalty for carrying concealed weapons, has been reported favorably by the House.

West Virginia

H. 120, regulating the carrying of uncased guns was passed by the House on March 8th.

FEDERAL BILLS PENDING

There has been no further progress made with any of the various Federal measures which have been reported in the March and April issues of THE AMERICAN RIFLEMAN. Senate Bill 3, the Copeland Bill, is still in Committee in the House of Representatives. This bill attains to control the use and possession of firearms by prohibiting the use of Interstate Commerce facilities by felony, fugitive from justice, and other members of the underworld for shipment of arms or ammunition. It has been designed to eliminate the gun from the hands of the crook while interfering as little as possible with the law-abiding citizen who wishes to use a handgun for sporting or other purposes.

During the present session of Congress there has been a number of measures introduced in both Houses which would prohibit the shipment of arms and ammunition to foreign countries in case of War. At the present time it is impossible to tell just what type of so-called neutrality legislation will be adopted before Congress adjourns, but some bill will undoubtedly be adopted, which will sub-plant the present rule governing International regulations. The present regulations require all manufacturers and dealers of ammunition components larger than .22 caliber to pay a fee of five hundred dollars, good for a five-year period. This provision was admittedly an error which probably will be rectified in the new legislation to be adopted.

S. 1905, introduced by Senator Shephard on March 17th and referred to the Committee of Military Affairs would amend the National Firearms Act to extend from this provision those inventors and scientists who wish to develop arms and ammunition in that Division of the War Department.

NEW LAWS

Indiana

S. 81, giving the Superintendent of State Police the power to issue permits to carry revolvers, and taking the power away from circuit court judges was passed by both Houses of the Indiana Legislature, and was approved by the Governor on March 9th. The existing Indiana Firearms Code is not changed in any other respect.

University of Chicago Matches

By SHERWIN MURPHY

ON FRIDAY night and all day Saturday and Sunday, April 2, 3 and 4, 353 small bore riflemen from fourteen states swarmed about the campus of the University of Chicago in quest of fame and "tinware." The occasion was the second annual invitational rifle matches sponsored by the university's rifle club with the co-operation of the National Rifle Association and the Illinois State Rifle Association.

The fascination of firing the popular Dewar course under perfect conditions is indicated by the fact that 336 of the 353 competitors entered this match. It was a rare and wonderful opportunity to test barrels and ammunition. The riflemen were quick to take advantage of it. The old, familiar alibis of wind, mirage and changing light were, of necessity, conspicuously absent.

Under the supervision of T. M. Metcalfe, director of athletics, the full facilities of the university's mammoth field-house were placed at the disposal of the meet officials.

With a view of doubling the capacity of the range for the 1938 matches, four points at the right end of the line were double-decked as an experiment, and the corresponding targets placed in two tiers. The lower firing points at this part of the line were quickly dubbed "the doghouse," though many of the shooters who used them were in anything but "the doghouse" when it came to scores.

Dressing room facilities and lockers were placed at the disposal of all competitors. Bleachers were erected for the comfort of onlookers who wished to observe firing line activity. A few feet in front of this improvised grandstand was a rope barrier beyond which was the "ready line" where competitors awaited the call to action.

A practical innovation that attracted attention was the huge "squadding board" on which space was provided for the thirty-one competitors' squadding tickets on each of the thirty relays. It was possible to tell at a glance the number of any competitor scheduled to fire on a particular "point" on each relay. This board also made it convenient to handle re-entry tickets up to the time a relay went on the line. The tickets were removed as fast as relays were completed.

The N. R. A. was represented by Major-General M. A. Reckord, Executive Vice-President, who remained throughout the entire time of the meet. He was accompanied by Lt. Col. B. W. Mills, Director of Civilian Marksmanship, who fired the

first shot on Friday night and thereby opened the competitions. F. A. Moulton and F. M. Hakenjos, of the N. R. A., assisted nobly in the registration and statistical work. Carl Henrikson, whose enthusiasm made the meet the tremendous success it proved to be, acted as Executive Officer.

More than sixty clubs were represented by teams or individuals, with visitors from eighty-seven towns in fourteen states. Thirty-one of the 353 competitors were women.

The university was host at a luncheon on Saturday at the famous Quadrangle Club to welcome the visiting officials of the N. R. A. and the officers and directors of the state rifle body. Dr. James M. Stifler of the faculty greeted the visitors in the name of the university. In reply, General Reckord expressed his pleasure at the cordial reception and thanked Dr. Stifler for the courtesies and co-operation extended by the University of Chicago.

Luceille Keiser, Wheaton College co-ed and a simon-pure tyro, won Match No. 1, the Intercollegiate Individual, with 390 X 400. R. C. Wheeler of Ohio State managed to score a 390, but was outranked at 100 yards.

And now, when we write of the BIG match of the program, the combination team and individual Dewar, let us do so with awe and respect. What a match! 295 individual entries and 36 teams. In addition consider that five 400 possibles were shot and it took a 399 with 16 X's

to get in the "money." 398's were a drug on the market and scores above 396 rated a dime a dozen.

In the individual section of the match the scoreboard showed the following scores for the top ten:

	50	100	
	yds.	yds.	Total
1—W. B. Woodring	200	200	400 (36 X's)
2—Eugene H. Pierce	200	200	400 (26 X's)
3—C. L. Wood	200	200	400 (25 X's)
4—E. L. Lord	200	200	400 (25 X's)
5—Louis Schmiedl	200	200	400 (20 X's)
6—Earl Mercier	199	200	399 (25 X's)
7—E. J. Neumann	200	199	399 (25 X's)
8—W. D. Scarborough	200	199	399 (24 X's)
9—Lew Mason	200	199	399 (22 X's)
10—M. B. Grosskopf	200	199	399 (16 X's)

It is believed that Woodring's score is a new indoor world's record for the Dewar and the highest ever fired indoors or out. With Woodring and Mercier in the top ten, it is not surprising that the East Alton (Ill.) Rifle Club won the 4-man Dewar team match in which 36 squads took part. Their team total of 1,593 averaged a fraction of a point better than 398 per man. In this event the leaders were:

1—East Alton (Ill.) R. C.	1,593
2—Zeppelin R. C. (Akron, O.)	1,587
3—Blackhawk R. C. (Chicago)	1,585
4—Zeppelin R. C. No. 2 (Akron, O.)	1,585

Match No. 3, 40 shots at 100 yards, any sight conditions, drew 157 entries and produced some exceptionally keen competition.

1—E. L. Lord	400 (33 X's)
2—M. R. Grosskopf	400 (30 X's)
3—W. B. Woodring	400 (30 X's)
4—D. A. Bashline	400 (26 X's)
5—L. Barrett	400 (26 X's)
6—F. O. Parker	400 (24 X's)
7—C. E. Nordhus	400 (24 X's)

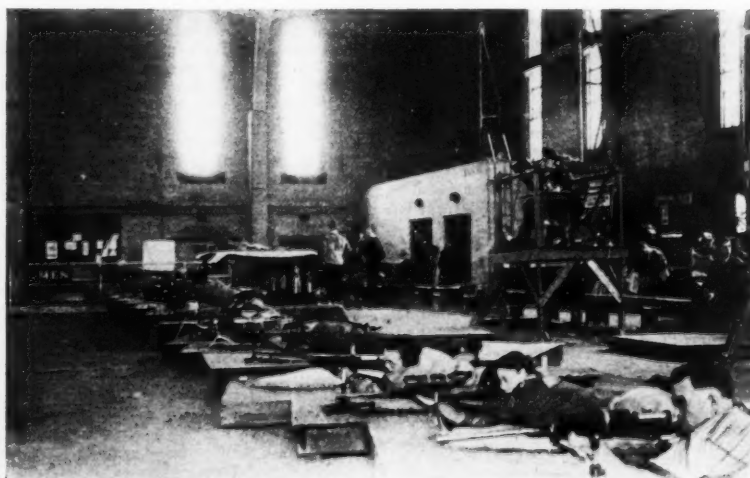


Photo by G. Sage

The University Field House Firing Line

Match No. 4 (2-Man Dewar Team)—72 Entries

1—A. L. Darkow	399
V. Z. Canfield	399

Total 798

2—M. Israelson	399
D. A. Bashline	399

Total 798

3—Earl Mercier	399
V. F. Tiefenbrunn	399

Total 798

Match No. 5 (100 yards, iron)—197 entries

1—V. F. Tiefenbrunn	400	(21 X's)
2—W. B. Woodring	399	(31 X's)
3—E. K. Waters	399	(21 X's)

Match No. 6 (Aggregate of 2, 3 and 5)

1—W. B. Woodring	1.199	(97 X's)
2—V. F. Tiefenbrunn	1.197	(76 X's)
3—E. K. Waters	1.196	(66 X's)
4—Earl Mercier	1.196	(69 X's)
5—E. L. Lord	1.196	

Note:—Mr. Carl Henrikson will appreciate pictures of the matches, for possible use in University publications. Address Mr. Henrikson, c/o School of Business, University of Chicago, Chicago, Ill.

LOAD UP—AND SHOOT

AN ENTIRELY new outdoor shooting program, together with a challenge to "load up and shoot" these popular home range matches has just been issued by the N. R. A. A copy of the program has been mailed to all members and club officers.

The new program gives every shooter, including juniors, tyros and experts, an opportunity to fire in national competition under standard tournament conditions without leaving home. It consists of four separate classes, (a) junior matches, (b) tyro matches, (c) open matches and (d) special events.

Everybody has an opportunity to win something, too. In addition to the regular place medals which go to winners of each match there are state championship medals for the highest ranking competitors from each state.

Find out for yourself how easy it is to win important shooting medals; how quickly you can develop or improve your marksmanship with the aid of competitive practice provided by these N. R. A. Home Range Events. Get out your program and enter at least one of the events now. Then load up your gun—and shoot. All outdoor matches are scheduled to be fired prior to June 15, except junior events No. 17 and 18, which close June 1. Write to the N. R. A. for a program if you do not have one.

Sea Girt Awaits Record Attendance

IT IS hardly necessary to recall to those competitors who took part in the First Memorial Day Sea Girt Tournament, held last year, the fact that this initial venture was a complete success. Constant inquiry regarding the Second Memorial Day Tournament, which will start with re-entry matches on May the 28th, followed by squadded competitions up to and including Monday morning, May the 31st, indicates with what keen anticipation both rifle and pistol enthusiasts look forward to this Second Tournament. A record turnout surpassing even the balmy days of Sea Girt proved that despite the absence of tournaments for several years this shooting locale had lost none of its appeal to the shooting fraternity.

With the benefit of a year's experience and under the direction of a capable committee, the arrangements for this year's competition are now practically completed and by the time this notice appears in *THE RIFLEMAN* programs will be ready for distribution.

Last year the competition was flavored by a few innovations that proved popular with the competitors. The 100 yard International target was used in two competitions and proved to be an effective way of reducing the number of ties. This year these two matches will be retained and in addition there is a possibility that a rapid fire match may be included in the series of competitions. A "Palma" course match using the decimal target instead of the C-5 target, and scoring the match accordingly, will be arranged. This popular three range match probably could stand a little renovating considering the improvement in equipment and ammunition, not to mention the skill of present day competitors, and decimal scoring in

the "Palma" match may prove an interesting experiment.

Actually, approximately fourteen individual matches are being scheduled with an interesting division of iron sight and any sight competitions. The initial Sea Girt Memorial Day competitions set a style for the handsome trophies presented and this year there are several new aggregates calling for additional trophies for both the rifle and pistol matches. For the pistol shooters there will be a list of twenty-six matches, including not only a grand aggregate but an aggregate for a match that will include a course of fire with rifle as well as pistol. Not to be outdone in the way of innovations the pistol program this year will have a match over the Olympic rapid fire course, using the silhouette targets. Special attention is being given to competitions that should appeal to police teams.

Last year some discomfort was experienced due to lack of sufficient blankets. This year the National Guard has informed the committee that more than an ample supply of blankets will be available for any number of competitors.

To those who have never attended matches on the Sea Girt Range the experience is sure to prove delightful, as Sea Girt has always been known to provide a real test of outdoor ability.

It is highly probable that most of the members of the Bisley Team will be in attendance at this Sea Girt Tournament and it will afford an excellent opportunity to meet in person some of the men who are going abroad in an endeavor to bring back the Pershing Trophy.

By all means put Sea Girt definitely on your list and don't forget to bring the family, as Sea Girt is a most attractive spot, even to the non-competitor.

KEMPER'S INDOOR CAMP PERRY

FIFTY-NINE rifle teams representing universities, colleges, essentially military schools, and high schools in ten middle western states were guests of Kemper Military School at Boonville, Mo., for the eighth annual Indoor Camp Perry, Friday and Saturday, March 12 and 13.

Kemper won the basic R. O. T. C. and grand championship matches with a record score of 740. In the high school division St. Thomas Military Academy was first with 726. The University of Minnesota fired 736 to win the advanced R. O. T. C. division. University City (Mo.) High School girls won in their division while

the Kansas State College women's team from Manhattan, Kans., nosed out Wichita (Kans.) University 388 to 387. Individual championships were also awarded in the various positions.

In spite of an eight-inch snow the Kemper cadet corps of 410 boys staged a dress parade at 3:00 p. m. Saturday and that night the final awards were made at the ball in the Kemper gymnasium by Colonel A. M. Hitch, superintendent, and Capt. J. O. Cleland, P.M.S. and T.

The visiting teams and coaches were entertained informally Friday night with a party at the Hotel Frederick in Boonville. At noon mess on Saturday the visitors enjoyed a dinner in the mess hall.

AKRON'S PISTOL SHOOT

THE third annual Goodrich Indoor Pistol Match, sponsored this year by the Summit County Pistol League, of Akron, drew 262 entries, with teams from Pittsburgh, Buffalo, Youngstown, Cleveland, along with three former state individual champions. About eight o'clock Sunday morning registrations started and by nine all twelve firing points were in action. From then on until a little after five there was continual action by eleven teams in the .22 caliber class, eight teams in the center fire class, 91 entries in the .22 class individual, and 95 in the center fire class; a total of 262 entries run off in about 9 hours—a continuous stream of shooters with almost no delays.

Mr. J. B. Sersch, Pennsylvania Railroad's Superintendent of Police, acted as judge, with members of the Summit County Rifle League doing the scoring.

The Ohio State Highway Patrol team in their natty uniforms added a bit of color to the crowd. Their marksmanship proved no less an attraction, with three members of their four-man team taking awards.

Eight trophies, forty-four medals, and seventy N.R.A. qualification buttons were awarded. The Big Three rubber companies, together with our good friends from the Owl Cigar Store and the Buckeye Cycle Company, helped with their support in obtaining trophies.

The Goodrich club took the .22 caliber team trophy, by outranking the Cleveland Revolver Club at rapid fire. Both clubs had their share of individual medals. Pittsburgh Coal Company team took the center fire trophy with Cleveland again in number two place.

Wood of Akron was the winner of the .22 aggregate with a 731 x 800. Kunkle of Washington, Pa., took the center fire aggregate with 707 x 800.—J. C. KELSEY.

GREAT LAKES POSTAL SERIES

RETURNS from the 10th annual Great Lakes Postal gallery matches sponsored by the Ladysmith Rifle Club up in northern Wisconsin show the Nemaadji Rifle Club of Superior repeating their victory in the club team matches with a score of 1425 x 1500. Emerson with a score of 290 was high man for the team and also high individual in the team match. The St. Paul Municipal Rifle Club took second place with 1394 and the Ladysmith Club third with 1379.

In the two man team shoot Emerson and Meysman of the Superior shooters also won, with Franklin and Bellows of International Falls, Minnesota, second, 5 points behind, and Pagel & Stein of the Minneapolis group third.

Honors in the individual matches were well spread out as usual. A newcomer in the shoot, Eli Cook of Lake Beulah, Wis., captured high offhand with a neat 188, followed by Miller of Richland Center, Wisconsin, and Hawcock of Monmouth, Ill., at 187 each.

Steve Bornslaeger shooting with the North Side Club in Milwaukee, lead the kneeling match with a full house, six points out in front of Bellows from International Falls and Schilling of Newport, Minnesota, in second and third places.

O. H. Detli of Mason, Wisconsin, always a consistent man, pulled in with a possible in the sitting matches taking first two points ahead of Emerson, and Bellows crowding up behind, and the persistent Lew Bulgrin of Owen topped the prone shooters with 200 and 19x, just edging out Hawcock of Illinois and Franklin of International Falls with the same score.

Emerson of Superior also led the entire field in the four position aggregates with 773 x 800, with Wm. E. Frasier of Rhinelander 3 points behind and Hawcock 1 point farther down.

ST. JOHN'S TROPHY GOES TO POLYTECH

THE 8th Annual St. John's University metropolitan invitational match at the Manhattan School of Firearms Range in New York City, April 3rd, brought nine collegiate teams into competition for the St. John's trophy.

Brooklyn Polytechnic day session, coached by Walter Shanessey, with two legs on the trophy, was able to win out by a one point lead over the N. Y. U. team—winner of the New England sectional championship two weeks before—to make it three straight and to retire the second St. John's trophy with permanent possession. The Brooklyn Poly Evening session retired the first trophy after winning three successive years from 1932 to 1934, while Shanessey was then a member of that team.

Although beaten for the team title, N. Y. U. emerged with one championship—the individual—won by a senior, Albert Metlicka, with a score of 140, which equalled the tournament record set last year by Tom Lewis of Brooklyn College. Roy Huntington of City College shot a 138 to place him in runner-up position ahead of Gus Chiarello of Fordham, who finished third.

City College finished third in the team standing with a 659 and Fordham, winner of the first leg on the trophy, fourth with 648. Columbia, Polytech evening, St. John's and Brooklyn College finished in order named. Cooper Union had only four men competing.

REGIMENTAL MATCHES IN PUERTO RICO

THE annual matches of the Puerto Rican Regiment—65th Infantry—were held March 2nd and 3rd at Henry Barracks, the station of the 1st Battalion.

This most interesting of our regular army regiments, originally organized as a battalion of volunteer infantry in 1899, and until the World War designated as the "Puerto Rican Regiment," has been since 1920 the 65th Regiment of Infantry, but remains 100 per cent Puerto Rican so far as its enlisted strength is concerned.

Annually two days are devoted to rifle matches, one day to an individual competition, the second to a team match in which teams of six from each company compete. Conditions are similar to the National Individual and National Team Match at Camp Perry, except that due to the restricted ranges made necessary by the dense population of the Island the firing is limited to 600 yards. Coaching may be—and usually is—done by a company officer, but firers are all enlisted. Considering that the rifles used are those with which the various companies are armed and the ammunition is the regular issue "Mark I," an unusually high degree of excellence is attained.

The Individual Match for the Governor Winship Cup was won this year by Corporal Bautista Bonini of Company F. The team from Company C, coached by Capt. Sils, the company commander, took the team match and the Harvey Trophy.

An interesting situation in this regiment is that no member becomes eligible for a service team at Camp Perry. Classed as "foreign service" and therefore not eligible as competitors, the enlisted men of the regiment almost without exception are Puerto Rican born, spend their entire service on the Island, and only in exceptional cases serve with any other regiment.

CORRECTION

SHOOTERS who are saving the list of national pistol records shown on page 43 of the January AMERICAN RIFLEMAN should make two corrections.

The record for the 25-yard Police Course is held by J. J. Engbrecht of the Los Angeles Police Team, but should be listed as—slow-fire 98, time-fire 99, rapid-fire 99, a total of 296. This score was fired during the California State Pistol Matches in Los Angeles June 27-28, 1936.

The .22 caliber pistol record of 190 for 20 shots slow-fire at 50 yards held by Mr. R. C. Bracken is correct except it was made at Camp Ritchie and not at Camp Perry.

MINNESOTA ANNUAL GALLERY RIFLE MATCHES

THE 1937 Annual Rifle Gallery Matches, which were conducted by the Minnesota Rifle and Revolver Association, on April 3 and 4, 1937, at the University of Minnesota Rifle Gallery, Minneapolis, were the largest and best attended Gallery Matches ever held in this State.

There were 148 registered shooters, compared with 79 registered last year. Shooting started at 1:30 P.M. Saturday, continuing to 6:00 P.M. and beginning again at 8:00 A.M. Sunday, continuing without a let-up, even for lunch, until 7:00 P.M. Some of the events required as many as five relays yet the twenty firing points were full at all times.

Each event was fired separately making a total of 17. In these events there was a total of 1133 entries and 12,730 shots were fired, not including sighting shots. As prizes there were presented 173 medals, 3 trophies and 1 plaque. The shooters came from all parts of Minnesota with 7 from Wisconsin and 4 from Iowa.

The competitors actually consisted of men, women and children. How gratifying it was to witness those youngsters shooting in the Junior class. They displayed keen competition with 26 entered in the Individual Match (20 shots Prone) and eleven four-man teams entered in the team match (20 shots per man, 5 in each position). St. Thomas College Team, St. Paul, won first place with a score of 735, Cretin High School, St. Paul, second place, score 696. J. Morrisette, Guy Gosewisch and Robert Kramer, all from St. Paul, won the first three places, individual match, in the order listed.

The Twin City shooters who usually made a good showing did not fare so well this year. Evidently Dr. Swanson had too many other responsibilities as President of the Association, for he too slipped, but little will be said about that as he already has a lion's share of first place prizes. Vern Hein, Winona, won the Grand Aggregate, shooting 590 out of a possible 600. Robert Sandager, Minneapolis, was second with 587, O. Helseth, Minneapolis, third and Austin Corpe, Minneapolis, fourth.

The Winona Snipers Rifle Club won first place in the Club Team match with a score of 1517 out of a possible 1600, 4 positions, winning the perpetual trophy from the Minneapolis Rifle Club. The Mankato Rifle Club placed second with 1514 and the Virginia Rifle Club third with 1513.

The Tyro class was included this year for the first time in these state events with exactly the same course of fire as the advanced class. The Tyro Grand Aggregate was won by Adolph Bjoraker, Owatonna, with 582. After winning this match Adolph was just beaming all over and

explained that he was especially happy because he won it using his scope, which he had made himself. Who said it was impossible to win big matches without expensive equipment? Second place, Tyro Grand Aggregate was won by B. Buckley, Mankato.

Undoubtedly the splendid result of this match should be a definite indication that interest in rifle shooting is reaching great proportions. Few realize how fast the interest is increasing and how much higher the winning scores are each year. Where it was formerly a chore to conduct one of these State Matches, it is now a genuine pleasure. What could be more pleasing than to see these shooters, from all walks of life, all ages, gathered together by the hundred, big cases, small cases, boxes, bags and every other type of conveyance, greeting and cheering each other and comparing equipment. Then the serious period of adjusting sights or scopes, shooting the match, checking the preliminary bulletins, congratulations or expressions of sympathy, packing the various boxes, etc., parting, and a good time was had by all.—GEORGE J. KUCHS.

ARIZONA PISTOL SHOOTERS MEET

THE State Pistol Association of Arizona, organized in 1934, held its 1937 championship matches at Casa Grande, April 4, under the most favorable conditions of an ideal day and a good attendance. Seventy-four shooters registered for the individual events and ten teams in the matches.

The high light of the shoot was in the any caliber timed fire match which found H. B. Coor, Maricopa County Deputy Sheriff, tied with Norman Adair at 198 x 200. Another ten shots found them still tied with a 99. In the next ten shots, however, Adair held to another 99 while Coor dropped a point for a 98 and second place honors.

Adair, Arizona's stellar pistol and revolver shot, took all the gold medals in the men's division and the championship. Mrs. Earl Dean won the women's championship while Mrs. Paul Bledsoe took the women's slow fire events with both .22 and .38 calibers. Adair's score over the .38 caliber national course was an excellent 280, and in the .22 caliber national course he scored a 278, just one point ahead of H. B. Coor.

The four-man team event over the police course was won by the Border Patrol outfit from El Centro, Calif. The Yuma (Ariz.) police team was second with a 1065 and the Tucson (Ariz.) Border Patrol team followed with a 1056.

Gold filled medals were awarded first

NAVAL ACADEMY WINS COLLEGIATE TITLE

THE U. S. Naval Academy's small bore rifle team, winner of the Middle Atlantic League tournament at Annapolis, has again been declared the official national intercollegiate champion.

The results of the six sectional tournaments held throughout the country on Saturday, March 20, show the navy marksmen leading the entire field of thirty-nine teams by a twenty-five point margin, leaving no doubt as to its claim to the national title.

While Carnegie Tech, the 1936 Champion, was shooting thirty points below its last year's score, and thereby rating a place just outside the first ten, the George Washington University team was duplicating the exact score of 1372 with which Carnegie won last year's crown. But with Navy's five-man team forging way ahead for a record total of 1397 this score of G. W.'s was only good for a slow second.

The sectional tournaments were held simultaneously under N. R. A. supervision in conveniently located ranges of the various leagues. The Middle Atlantic teams met at Annapolis, Md.; the New England league at New Haven, Conn.; Big Ten teams at Champaign, Ill.; Missouri Valley teams at Lincoln, Nebr.; Allegheny teams at Pittsburgh, and the University of California alone representing the far west at Berkeley, Calif.

Third place went to the leader of the Big Ten teams, Minnesota, the team average of 1364 raising their third place score of last year by one point. California placed fourth, with Pittsburgh and Maryland in the Middle Atlantic League following in fifth and sixth places. Of the winners of the other tournaments, only N. Y. U. was able to place in the first ten.

Individual honors go to two Navy men, Ross, in his first year of varsity competition, outranking his team-mate Kitch with a total of 283. Last year's leader, Sandager of Minnesota, dropped six points below his '36 record for a 279 and sixth position.

It was in the standing position that the Navy showed their real class. Their team score of 437 for this stage accounts for their outstanding superiority over the other teams. G. W.'s second place winners proved excellent shots from the prone position—three members of their team making possible scores.

place winners with sterling silver and golden bronze for second and third. The champion was also awarded a heavy barrel Colt officer's model target revolver. The tyro champion received a Colt Woodsman automatic.

ALABAMA

*May 1-2: Alabama State Small Bore Tournament will be fired on the General Persons Range, Birmingham, Alabama. Quarters available on range for competitors. For programs write M. F. Scott, Secretary, c/o Alabama Power Company, Birmingham, Alabama.

CALIFORNIA

May 22: Capital City Rifle Club of Sacramento, California, will sponsor a small bore shoot to be held at night starting at 7:30 P. M. Midnight dinner will be served.

May 23: Oak Park Pistol Club will sponsor the Northern California Pistol Tournament in Stockton. For programs write Dr. J. Coleman Browne, 902 Bank of America Building, Stockton, California.

June 12-13: Western Small Bore Rifle Championships sponsored by the Elks Rifle and Pistol Club and Richmond Rifle and Revolver Club will be held in Richmond, California. For programs write E. J. Martin, 325 12th Street, Richmond, California.

June 18-19-20: California .30 caliber Rifle Matches and State Civilian Team tryouts will be held on the San Luis Obispo range. For programs write L. A. Pope, 532 Oakford Drive, Los Angeles, California.

*July 31 and Aug. 1: State Pistol Matches will be fired at Alameda. For programs and further information write L. A. Pope, 532 Oakford Drive, Los Angeles, California.

COLORADO

*May 23: Fourth Annual Dewar Tournament sponsored by the Greeley Rifle Club of Greeley, Colorado. For programs write Harry T. Rosling, 922 Sixth Street, Greeley, Colorado.

CONNECTICUT

*June 18-19-20: Connecticut State Small Bore Championships sponsored by Connecticut State Rifle and Revolver Association. For programs write Ed. E. Cooke, 257 W. Main Street, Meriden, Connecticut.

DELAWARE

Sept. 31: Delaware Police Team and Individual Pistol Matches sponsored by the Marksman Club of Wilmington. For programs write F. R. Lesney, 106 East 16th Street, Wilmington, Del.

*Oct. 1-2-3: Annual Delaware Tidewater Rifle and Revolver Championships sponsored by the Marksman Club. For programs write F. R. Lesney, 106 East 16th Street, Wilmington, Del.

FLORIDA

May 8-9: State .30 Caliber Matches, Team and Individual, sponsored by The Winter Haven Rifle Club and Florida State Rifle and Revolver Association. For programs write Harry Miller, Winter Haven, Florida.

GEORGIA

*May 22-23: North Georgia Small Bore Rifle Tournament sponsored by the Atlanta Rifle Club. For programs write Charles Hamby, P. O. Box 155, Atlanta, Ga.

May 24-25: State Pistol Championships sponsored by the Savannah Police. For programs write Savannah Police Department, Savannah, Georgia.

ILLINOIS

May 2: Individual Short Range Small Bore and .30 caliber Camp Perry Instructors Course to be held at Fort Sheridan. For programs write S. A. Weller, 4809 Oakwoods Avenue, Downers Grove, Illinois.

May 9: Illinois State Small Bore and Pistol Matches will be held at Centralia, Illinois. For programs write S. A. Weller, 4809 Oakwoods Ave., Downers Grove, Illinois.

May 16: Four-man Team and Individual .30 caliber Rifle and Pistol Matches to be held at Fort Sheridan, Illinois.

May 23: Small Bore and Pistol Matches to be held at Havana, Illinois.

COMING EVENTS

May 23: 1000-yard Any Rifle Match at Fort Sheridan, Illinois.

May 30: Four-Man Team and Individual Small Bore Match at Fort Sheridan Illinois.

June 6: .30 caliber Rifle Matches at Fort Sheridan.

June 6: Small Bore and Pistol Matches at Champaign, Illinois.

*July 23-24-25: Illinois State Small Bore Rifle and Pistol Matches at Camp Grant.

INDIANA

May 30: Southeastern Indiana Small Bore Matches. For programs write Forrest Kessens, Secretary, Batesville Rifle Club, Batesville, Ind.

June 12-13: Midwest Rifle and Pistol Tournament sponsored by American Legion Post No. 11 Rifle and Pistol Club. For programs write C. B. Gilderleeve, 345 West Oak Street, W. Lafayette, Ind.

IOWA

*May 22-23: Iowa State Pistol Tournament to be held at Camp Dodge, Des Moines, Iowa. Write G. G. Cooper, 816 Telephone Building, Des Moines, Iowa.

*June 6: First Annual Small Bore Eastern Iowa Regional Match will be held on the new range of the Muscatine Rifle Club, Inc. For programs write J. G. Johnston, 219 W. 7th Street, Muscatine, Iowa.

*June 19-20: Iowa State Small Bore Matches. For programs write G. G. Cooper, 816 Telephone Bldg., Des Moines, Iowa.

July 31-August 1: Iowa State .30 caliber Matches and tryouts for State Civilian Team on the Camp Dodge Rifle Range. For programs write G. G. Cooper, 816 Telephone Bldg., Des Moines, Iowa.

KANSAS

May 23: Southern Kansas Championships sponsored by the Wichita Gun Club. For programs write J. M. Lawson, c/o First National Bank, Wichita, Kans.

June 13-14: State High Power Rifle and Pistol Matches at Fort Riley. State Civilian Team will be selected at this match. Wm. M. Ruddick, Hutchinson, Kansas.

June 27: Kansas State Small Bore Rifle Tournament. For programs write Frank T. Boyd, 1210 Thorp St., Topeka, Kansas.

KENTUCKY

May 16: Kentucky Civilian Team Tryouts at Fort Knox. Rifles and ammunition furnished. Second tryout dates will be in June RIFLEMAN. For programs write Harry J. Hopkins, 1506 S. 4th St., Louisville, Kentucky.

June 12-13: Kentucky State Pistol Matches sponsored by the Lexington Pistol Club. For programs write Dr. Scott Breckenridge, 164 Market St., Lexington, Kentucky.

MARYLAND

*July 1-5: Eastern Small Bore Rifle and Pistol Championship sponsored by the Eastern Small Bore Association to be held at Camp Ritchie, Maryland.

MASSACHUSETTS

May 15-16: New England Police Revolver League Match sponsored by the New England Police Revolver League. For programs write Walter B. Hurley, 9 Chambers Street, Boston, Massachusetts.

July 17-18: Connecticut Valley Championship sponsored by Ludlow Fish and Gun Club—Rifle Division. For programs write Harold V. Lovett, 290 Goodwin St., Indian Orchard, Massachusetts.

July 24-25: Bay State Rifle Matches will be held at Walnut Hill, Mass. For programs write Robert A. Van Amburg, 41 Whitney Road, Medford, Mass.

July 31-August 8: United Service of New England Annual Tournament at Wakefield. Write E. F. Walker, 49 Westminster, Providence, R. I.

MISSOURI

*May 22-23: The Missouri State Matches sponsored by the Missouri State Rifle and Pistol Association.

MAINE

*June 26-27: Sixth Annual Small Bore Tournament sponsored by the Maine State Rifle and Pistol Club to be held in Skowhegan. For programs write Kendall Cross, Solon, Maine.

NEW HAMPSHIRE

July 10-11: New Hampshire State Matches. For programs write A. G. Stevens, 46 Manchester St., Manchester, New Hampshire.

NEW JERSEY

May 2: 4th Annual 50 Meter Individual and Team Invitation Shoot sponsored by the Amateur Rod and Gun Club. First prize a new target rifle, special awards for "average" shooters. Write R. B. Champin, 20 Robertson Road, West Orange, N. J., for full information.

May 9: Second Annual Small Bore Rifle Shoot sponsored by the Paramount Rifle and Pistol Club at their range, 271 Moonachie Ave., Moonachie, N. J. For details write Geo. H. Hurst, 12 Joseph Street, Little Ferry, N. J.

May 22: Wilburth Pistol Matches to be held on the Wilburth Range. For programs write M. O. Kimberling, State Police Department, Newark, N. J.

*May 28-29-30-31: Sea Girt Small Bore Rifle and Pistol Matches at Sea Girt, New Jersey. Re-entry only on 28th. For programs write Robert Champlin, No. 20 Robertson Rd., West Orange, N. J.

NEW YORK

May 9-15 and 16: Long Island Rifle and Pistol Association Spring Matches sponsored by Roslyn Rifle and Revolver Club. Write Geo. F. Haderer, 8919 89th Street, Woodhaven, Long Island, New York.

May 15-16: 7th Annual Hudson Valley Championship sponsored by Poughkeepsie Rifle Club. Write G. W. Morehouse, 5 Oak Crescent, Poughkeepsie, N. Y.

May 29-30-31: New York State Pistol Matches to be held on the Split Rock Range, Syracuse. Sponsored by Onondaga Chapter Reserve Officers Association. For programs write Colonel E. F. Robinson, 268 Federal Bldg., Syracuse, N. Y.

June 5-6: Peekskill Small Bore Matches sponsored by New York State Ass'n. To be held in Peekskill, New York.

August 15: Poughkeepsie Rifle Club All Range Match. For further details write G. W. Morehouse, 5 Oak Crescent, Poughkeepsie, New York.

NORTH CAROLINA

*May 7-8: The Kannapolis Small Bore Tournament sponsored by Kannapolis Rifle and Pistol Club. For programs write S. K. Barringer, Kannapolis, N. C.

July 17-18: North Carolina Civilian Team Tryouts at Fort Bragg. For details write H. M. Rooney, Linville, North Carolina.

OHIO

*May 15-16: Second Annual Tri-State Pistol Matches conducted by the Indian Hill Rangers. For programs write Captain H. E. Wilson, Indian Hill Rangers, Madeira, Ohio.

May 23: 3rd Annual Small Bore Rifle Tournament sponsored by the German Rifle Club. For details write Joseph H. Kasper, 2116 W. 101 St., Cleveland, Ohio.

May 30: Decoration Day Shoot sponsored by the Zeppelin Rifle Club. For programs write Merle Israelson, Box 295, R. D. 8, Akron, Ohio.

***June 25-26-27:** Ohio State Matches sponsored by the Ohio State Rifle and Pistol Association at Camp Perry. For programs write F. L. Spencer, 502 E. Walnut St., Wilmington, Ohio.

July 17: 2nd Annual Ohio Valley Pistol Championship Matches, and Ninth Annual Silver Cup Matches. Sponsored by The Legion Rifle and Pistol Club. For programs write Phil D. Butler, 62 S. Paint St., Chillicothe, Ohio.

***July 30-31 and August 1:** Zeppelin Small Bore Rifle Tournament. For programs write Merle Israelson, Box 295, R. D. 8, Akron, Ohio.

***August 18-19-20-21:** The "All American Pistol Matches" sponsored by the Indian Hill Rangers. For programs and further details write Rudolph Homan, Madeira, Ohio.

August 22 to Sept. 11, Inc.: National Rifle and Pistol Matches, Camp Perry, Ohio. These dates are not definite, and are subject to change. Complete information will be contained in future issues.

***August 14-15:** 4th Annual Small Bore Rifle Tournament sponsored by the Fort Harmar Rifle Club. For programs write L. R. Miller, 735 Fourth St., Marietta, Ohio.

Mid-October: The Ninth Annual Silver Cup Rifle Matches sponsored by The Legion Pistol and Rifle Club. Write Frank Ferguson, P. O. Box 186, Chillicothe, Ohio.

Mid-October: The Metropolitan Pistol Matches, open to residents of Greater Cincinnati. Sponsored by the Indian Hill Rangers. Write Rudolph Homan, Madeira, Ohio.

OKLAHOMA

June 5-6: 12th Annual .30 caliber Championships sponsored by Oklahoma Rifle Association. For programs write Captain Elmer C. Croom, Okmulgee, Oklahoma.

OREGON

May 29 to 31: Oregon State Small Bore Tournament sponsored by Oregon State Rifle Association to be held in Clackamas, Oregon. Write Leslie T. St. Clair, Gresham, Oregon.

July 24-25: State .30 caliber Rifle, Pistol and Revolver Matches sponsored by the Oregon State Rifle Association. For programs write Leslie T. St. Clair, Gresham, Oregon.

August 7-8: State Civilian Team Tryouts at Clackamas, Oregon. For programs write Leslie T. St. Clair, Gresham, Oregon.

PENNSYLVANIA

May 22: Open Small Bore Shoot sponsored by the Ellwood Rifle Club. For programs write D. M. Stamm, R. D. 2, Ellwood City, Pa.

May 31: The Second Annual Memorial Day Small Bore Shoot sponsored by the Zelenople Rifle Club. For information and programs address Rev. Guy M. Wilson, Spring-Division Streets, Zelenople, Penna.

***June 12-13:** Sixth Annual Walnut Creek Rifle Club Tournament. For information write F. S. Campbell, 1810 West 12th St., Erie, Penna.

RHODE ISLAND

July 10-11: Rhode Island State Small Bore Matches conducted by Rhode Island State Rifle and Revolver Association. For programs write Frank B. Perry, 93 Calla St., Providence, R. I.

July 17-18: Providence Police Pistol Matches sponsored by Providence Police Revolver and Athletic Association. Write Alf. T. Steeves, 60 Health Avenue, Providence, R. I.

TEXAS

***May 8-9:** Texas State Small Bore Tournament sponsored by Texas State Rifle Association, Inc. To be held in Fort Worth.

June 3-4-5-6: Texas State Big Bore Matches at Camp Bullis. Sponsored by Texas State Rifle Association.

***July 17-18:** Texas State Pistol Matches at Laredo. Sponsored by Texas State Rifle Association, Inc. For programs write L. L. Cline, President, 325 Cedar Street, San Antonio, Texas.

***Sept. 25-26:** Southwest Pistol and Small Bore Rifle Tournament sponsored by the Trinity Rifle Club. Write H. Frank Townsend, 6151 Palo Pinto Avenue, Dallas, Texas.

VIRGINIA

May 29-30-31: Virginia State Matches sponsored by Richmond Rifle and Pistol Club, Inc. For programs write L. O. Mills, 5200 Evelyn Byrd Road, Richmond, Virginia.

WASHINGTON

***May 9 and 23:** Seattle Outdoor Pistol Buddy Team Match sponsored by Seattle Police Revolver Club. Write Walter F. Day, 2343 43rd Avenue, North, Seattle, Washington.

May 29-30-31: Washington State .30 caliber Rifle Matches and Preliminary Civilian Team Tryouts sponsored by Washington State Rifle Association. Write Lt. Col. I. W. Kenney, Camp Murray, Fort Lewis, Washington.

***June 13 and 29:** Seattle Outdoor Pistol Buddy Team Match sponsored by Seattle Police Revolver Club. Write Walter F. Day, 2343 43rd Avenue, North, Seattle, Washington.

***July 11:** Seattle Outdoor Pistol Buddy Team Match sponsored by Seattle Police Revolver Club. Write Walter F. Day, 2343 43rd Avenue, North, Seattle, Washington.

WEST VIRGINIA

June 25-26: Rifle and Pistol Tournament sponsored by Fairmont Gun Club. For programs write A. M. Springer, Box 204, Fairmont, West Virginia.

WISCONSIN

June 6: Land O'Lakes .30 caliber Match sponsored by Ladysmith Rifle Club. Write A. L. Dahlstrom, Ladysmith, Wis.

June 20: 2nd Annual Tri-State .30 caliber Rifle Meet sponsored by Post No. 52 American Legion Rifle Club. Write E. L. Schreiber, 716 Vine St., La Crosse, Wisconsin.

* Indicates Registered Tournament.

NEW EVENTS SCHEDULED FOR NEW ENGLAND MATCHES

TWENTY-ONE individual rifle matches, sixteen team matches for riflemen and seventeen matches for individuals and team shooting the pistol or revolver make up the program for the Annual Tournament of the United Services of New England to be held at Camp Curtis Guild, Wakefield, Mass., from July 31 to August 8 inclusive, according to a statement made to THE AMERICAN RIFLEMAN by officers of the matches.

Many new matches, including one for the Browning Automatic Rifle open to Massachusetts National Guardsmen armed with that weapon, an "any rifle" match at 200 yards prone on the Army "A" target with five-inch "V" ring and a series of revolver matches open to police teams from any state, are some of the innovations this year.

This tournament, which is second only to Camp Perry in importance for big bore riflemen, and which immediately precedes that event, annually draws a large entry

list from the regular services, the National Guard and civilians from all over the northeastern part of the country.

The Competition Committee has been assured of the participation of the crack riflemen of the U. S. Marine Corps, the U. S. Coast Guard, the Infantry Team, the Cavalry Team, and National Guard teams from several New England States in addition to an unprecedentedly large entry of civilians.

Of the individual matches for the rifle, fourteen are open to all contestants and four team matches, including the classic "Hayden Match" for teams of ten over the National Match Course, are also open to anyone. In the pistol and revolver division three individual matches are open to any contestant while five team matches are open to police from any state.

There is an exceptionally large assortment of trophies and prizes in all the events and the range has been greatly enlarged and improved. There are now 87 targets available at 200 yards and 25 at most other points. The new pistol range, completed last Fall, has targets for 28 shooters and the same number are available on the practice range.

It is expected that pit and scoring details will be handled by the Marine Corps as usual with the addition of a company of regular infantry from one of the New England posts.

Conduct of the matches will be in the hands of the following officers: Executive Officer, Maj.-Gen. Walter E. Lombard, M. N. G. Ret.; Asst. Executive Officer, Lt. Col. C. David Berg, 182nd Infantry, M. N. G.; Chief Range Officer, Lt. Col. Marion B. Humphrey, U. S. Marine Corps; Statistical Officer, Major Lloyd S. Spooner, Infantry, U. S. Army; Asst. Statistical Officer, Mr. Walter E. Hurley.

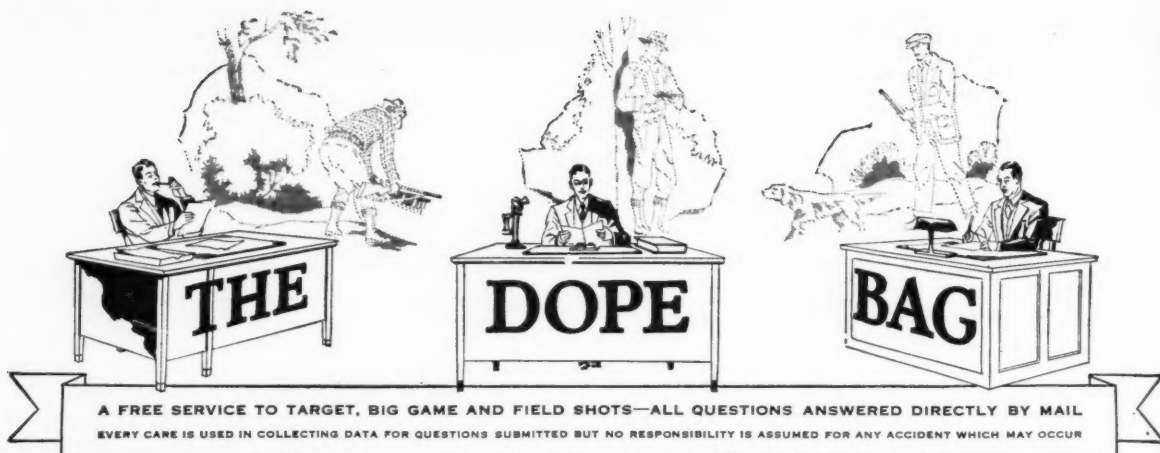
Printed programs of the matches will be available June 1st, on application to E. F. Walker, 49 Westminster Street, Providence.

OUTDOOR RANGE ILLUMINATED

SHOOTERS near Pasadena, Cal., are invited to try night shooting on the well lighted 25, 50 and 100 yd. outdoor range of the Crown City Rifle and Revolver Club of Pasadena. The shooting is limited to .22 caliber rifles and pistols. There are generally prizes and awards for which a nominal fee is charged.

CHALLENGES

The Marlboro Fish and Game Association's small bore rifle team wishes postal matches, both indoor and outdoor, ten men to shoot with five high to count, on either 50 ft. indoor range or over the Dewar course outdoor. The pistol team would like matches over either the 50 ft. gallery range or 50 yd. outdoor course.



Conducted by F. C. Ness

The .219 Zipper and Others

THIS new Winchester cartridge was announced in the Dope Bag last month. Since then we have tried the M-64 Winchester lever-action sporting rifle in this caliber with factory sights and with the 344 Weaver scope sight. We used both factory loads, 56-grain and 46-grain. We prefer the heavier bullet and also think it is more accurate. Both bullets are of the open-point variety. Exposed lead tips would become battered in the magazine and pointed bullets would, of course, be impractical in the tubular magazine.

The M-64 is a fine lever-action, light and handy, easy to carry, fast in operation and well adapted for scabbard use on horseback. The sights are very good and so also was the trigger-pull of the sample which we tried. However, it is not a target rifle and the accuracy was only fair, even from bench rest.

Firing the 56-grain cartridge as a check, my group with the receiver-peep and hooded-bead sights landed 1.60 inches above aim at 50 yards. This looked about right and we never touched the factory adjustment. At 100 yards the same combination placed the impact on the point of aim. All groups were narrow, the spread being vertical. The spread was 4.58 inches, too big to stay on a horizontal chuck or jackrabbit at 100 yards, but adequate for hitting a vertical hawk or a sitting squirrel. At 50 yards the group measured 2.40 inches. The 46-grain group was slightly larger, or 2.62 inches.

We mounted the high-model S-type mount for the 344 Weaver on the side of the barrel close to the receiver. By holding the muzzle up the ejected shell falls backward and downward, to clear the scope over the ejection port, which is on top in this action. While locating the mount base we aligned the cross hairs (previously centered in the field of view) as nearly as possible in agreement with the factory sights, but still it took some mount twisting and paper shimming and more than a dozen cartridges to get the impacts to agree in elevation at 50 yards. After that we took off 6 clicks left windage and had the impact where we wanted it. All this metal-springing, screw-turning and shooting took about fifteen minutes.

Again we got vertical groups. My best with the 46-grain load was 1.42 inches. With this bullet we had another of 1.64 inches. With the scope the 56-grain load shot into 2.21 inches. This was bench-rest shooting at only 50 yards. On account of the high scope and the low comb we fitted a Stam rubber cheek rest to the butt stock, which made it fine to shoot from bench rest.

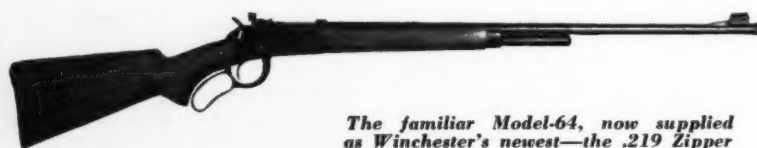
On another day we tried the scope from bench rest at 100 yards. The best I could do with the 46-grain load was 3.72 inches, and we had groups as large as 6.15

inches. With the 56-grain bullet my best 10-shot group measured 3.27 inches.

At 200 yards I fired three 5-shot groups and a 10-shot group from bench rest, using the Weaver scope. The spread was again consistently all vertical. The 46-grain group measured 6.38 inches. The 56-grain load made 3.90 and 9.70 inches. The final ten-shot group with this load measured 10.42 inches with 7 shots in 3.90 inches.

With 3 minutes excess elevation at 50 yards the impact was 1½ minutes high at 100 yards, or 1.5 inches above aim at both ranges. This with both scope and factory sights. With the scope it remained 1½ inches above aim at 200 yards, indicating a flat trajectory over the greatest practical distance. The bead sight was not tried at 200 yards. All the above dope on impacts and trajectory applies to the 56-grain bullet. The lighter bullet did not do nearly as well. At 50 yards the 46-grain bullet landed 2 minutes low, or about an inch below aim. At 100 yards it averaged nearly 1½ inches low, and at 200 yards its impact was 9½ inches below aim.

Though designed for the Model-64 Deer Rifle the .219 Zipper is not a deer cartridge by intent. For small-game shooting the mediocre accuracy of the rifle as issued limits it to 100 yards for dependable hitting. With a good scope sight the effective range could probably be increased up to that of the .22



The familiar Model-64, now supplied as Winchester's newest—the .219 Zipper

Hornet; that is 150 yards. The .219 Zipper is appreciably more powerful and its flatter trajectory and better wind-bucking ability excels. The Hornet would, nevertheless, give more hits and kills on small varmints and small game because of the appreciably better accuracy of the latter.

For medium game, such as fox, turkey, coyotes, wolf and jackrabbits, the .219 Zipper might possibly prove to be superior as compared with the .22 Hornet. However, I believe it will appeal principally to those lever-action devotees who may hope to find in it some improvement on the similar .22 Hi-Power Savage. Except for the standard .224-inch diameter of bullet and bore and its slightly flatter trajectory I can see in the M-64 Zipper no advantage over the M-99 .22 Hi-Power. For scope use the M-99 Savage, side-ejection, solid-top, lever-action rifle is unquestionably superior. For equally favorable low position of the instrument on the Winchester, the scope would have to be a Noske with 6-inch eye relief mounted on the barrel in a special Redfield mount or in the Stith mount or an auxiliary deflector like the Stith must be provided for ejection to the side. With our small Weaver scope, 1 1/4 inches above the bore of the M-64 Winchester, the Zipper cases will not eject. Also, that places the line of sight plenty high, it being 2 3/4 inches above the comb.

The .219 Zipper cartridge is so nearly like the .22 Niedner Magnum it might well supplant the latter, as it should prove to be accurate in a proper bolt-action or heavy Single Shot. Note the following dimensions of cases, given for comparison:

(At)	.22 Niedner Magnum	.22 Savage Hi-Power	.219 Winch. Zipper
Rim .....	.415 inch	.420 inch	.416 inch
1/4 inch .....	.405 "	.417 "	.411 "
1/2 inch .....	.393 "	.405 "	.398 "
Shoulder .....	.3575 "	.369 "	.362 "
Length	1.8125 "	2.0625 "	1.9219 "

Because it is not a standard cartridge no standard ballistics can be given for the .22 Niedner. The .22 Savage Hi-Power with 70-grain bullet develops 2800 f.-s. and 1190 ft.-lbs. at the muzzle. At 100 yards the remaining velocity and energy are 2453 f.-s. and 911 ft.-lbs. The midrange trajectory is 0.62 inches.

The .219 Zipper with 56-grain bullet develops 3100 f.-s. and 1195 ft.-lbs. at the muzzle. At 100 yards the remaining velocity and energy are 2492 f.-s. and 773 ft.-lbs. The midrange trajectory is 0.48 inches. I like the caliber and the case better than those of the .22 Hi-Power Savage and I would consider the M-64 rifle to be appreciably more accurate than the featherweight takedown, but less accurate than the solid-frame heavy-barrel type of .22 Savage rifle when both are fired with factory ammunition.

With its high-intensity loads the M-64 is very sensitive to method of holding and to barrel support. Resting the forestock instead of the muzzle raises the impact 6 minutes of angle or more than 6 inches at 100 yards. Vibrations set up by heavy loads bend the middle of the barrel upwards or the muzzle downwards, causing such loads to land lower than light loads.

With our Belding & Mull Model 26 we tried a series of modified handloads which, when fired in this rifle, backed up our suspicions. We had round groups and satisfactory accuracy until the loads were increased, when the dispersion became practically all vertical. This vertical stringing of shots became more and more pronounced the more closely we approached the factory load or its ballistics. The factory 46-grain cartridge which we broke down was filled to the neck with what looked like I.M.R. No. 3031 powder. The charge weighed 27.8 grains. In the 56-grain cartridge it weighed 25.8 grains. The factory overall length is 2.25 inches, while we seated the Winchester bullet out to a length of 2.32 inches, and the Sisk bullets to an overall of 2.375 inches in the .219 Zipper. Our 5-shot groups at 100 yards were as follows (Note Extreme Verticals and Horizontals):

Sisk 63-gr. S.P. and Hi-Vel No. 3					
20 grs.	4.48 inches	0.25 H	4.45 V		
21 "	2.00 "	0.52 H	1.98 V		
21.8 "	2.80 "	1.00 H	2.75 V		
Sisk 55-gr. S.P. and Pyro D.G.					
23.5 grs.	1.35 inches	0.94 H	1.32 V		
24.5 "	3.30 "	0.40 H	3.27 V		
25.5 "	2.65 "	0.40 H	2.65 V		
W.R.A. 46-gr. O.P. and No. 1185					
27.0 grs.	1.62 inches	1.56 H	1.05 V		
28.0 "	1.70 "	1.04 H	1.68 V		
(All ten) ...	2.70 "	1.56 H	2.67 V		

The impact with 21 grains HiVel No. 3 powder agreed with that of the 56-grain factory cartridge which was 3.30 inches above aim at 100 yards. The 20-grain impact was more than 4 inches higher and the 21.8-grain impact was nearly 2 inches lower. Also with Pyro D.G. 25.5 grains shot nearly 4 inches lower than 23.5 grains, and 24.5 grains went just over 2 inches lower than the lighter charge. We used F.A. No. 70 primers with the D.C.M. propellants and R.A. No. 9 1/2 primers with HiVel No. 3 powder. This 26-inch Zipper barrel has 6 grooves and lands of one turn in 16 inches and a .224-inch groove diameter.

Because of the modified taper of body and shoulder in the Zipper case the pressures are comparatively low, or around 40,000 pounds. This low pressure adapts the factory cartridge for the Krag action which is limited to a maximum of 42,000 pounds. The Krag converted to a single-shot in this caliber should make a superb vermin rifle with pointed 6-caliber bullets of about 55 grains weight, until some

reloader unwittingly boosts his pressures to 50,000 pounds as is done in the .22 Niedner Magnum.

The factory loads will probably prove to be adequately accurate in such a rifle, but like the .22 Hornet, these W.R.A. open-point bullets are sensitive to wind deflection and must be used in calm weather. We tried the .219 Zipper in a 25-mile wind and the 46-grain load blew 6 inches at 100 yards while the 56-grain bullet blew slightly over one-half as much. In the same test the 54-grain pointed bullet at only 2700 f.-s. in the .22 Lovell blew only 1 1/2 inches. Choosing the 56-grain load we tried the .219 Zipper on crows that same windy day and had only 22.2% kills, all at about 125 yards. At closer or longer ranges our elevation was at fault on account of the exaggerated vertical dispersion. This was even a greater handicap than was the wind. At ranges up to 400 yards that 56-grain bullet surprised us by landing on aim or above aim.

The Lovell .22 High-Power

Referring to the cut of the cases and cartridge and beginning on the left, the first (case) is the .22 Niedner Magnum made by necking down the .25-35 Winchester. The second (case) is the standard .22 Hi-Power Savage as used by Mr. C. M. Anderson. The third (cartridge) is the new Winchester .219 Zipper as factory loaded with 56-grain bullet. There is a small "W" stamped on the bullet to distinguish it from the similar-looking 46-grain bullet. The fourth (case) is that of the .219 Zipper. The fifth (case) is the Lovell .22 High Power made by shortening and reforming the .22 Hi-Power Savage case. Note its great similarity to the .219 Zipper case beside it.

Hervey Lovell, 3345 N. Gale Street, Indianapolis, Indiana has had this Lovell .22 High Power for fifteen years. His first rifle for it went to a student (now a New York State Ranger) at Hayardville, Connecticut, more than fifteen years ago. It is a compliment to Lovell to now have a great loading company manufacture it as a modern cartridge. The length, neck, shoulder and other dimensions are practically the same. We find only a slight variation in comparing the various dimensions, some of which are almost identical in the two cartridges. Dimensions of the other cases are given in the article above. For comparison, the dimensions of the Lovell .22 High Power are: At rim, .417 inch; 1/4 inch from rim, .409 inch; 1/2 inch from rim, .397 inch; at shoulder, .357 inch; length, 1.9297 inches.

Having started the Lovell .22 High Power so long ago, Hervey has had several rifles and many loads for it as well as much experience with it on chucks

and targets. One of the first of these was chambered for the standard 70-grain Savage bullet. It had a groove diameter of .227 inch and a turn in 14 inches. His most accurate chuck rifle had a .224-inch groove diameter and the slow twist of a turn in 20 inches. This was a 12-pound Winchester Single-Shot with set triggers. Using the Sisk 55-grain S. P. bullet and 24.5 grains HiVel No. 3 he made 21 kills at an average range of 170 yards. Longest range was 260 yards. Exactly a year ago he wrote me about using 27 grains of No. 3031 in this rifle and he had just killed three chucks at 175 yards with three shots. He also used 26 grains No. 3031 successfully on chucks.

Shooting from his car window he could correctly call his impacts on the shoulders of chucks at all distances and gave the credit to the set trigger and the heavy weight of this rifle. The barrel of chrome-nickel steel was $1\frac{3}{16}$ inches thick and 28 inches long. Lovell found this length too great for convenience in a car, and he recommends, for an accurate and more portable outfit, a 26-inch barrel tapered from $1\frac{1}{8}$ inches to 1 inch at the muzzle.

Lovell's latest rifle in this caliber is a Mauser bolt-action with a 26-inch barrel of the same weight and contour as that on the M-54 Target Grade Winchester. It has a .224-inch groove and a turn in 16 inches. He uses a .22 Hi-Power case, shortened $\frac{1}{16}$ inch, or the same as the Winchester Zipper. His groove tolerance is .0002 inch, plus or minus (about one-half thousandth total) and he uses a chamber clearance of .001 inch. The bigger Sisk bullets and the standard Savage 70-grain are, of course, too large for such a normal groove diameter.

Speaking of bullets, Lovell finds that the Sisk 55-grain S. P. and later Express Magnum bullets, like the 117-grain 25-caliber S. P., give plenty of penetration but inadequate expansion. The equally accurate W. R. A. 45-grain S. P. bullet proved to be much more reliable on chucks on account of prompt and ample expansion. The 63-grain Sisk requires a quicker twist for accuracy and the 55-grain Sisk the higher velocity of the .220 Swift for adequate expansion and killing effect.

Perhaps R. B. Sisk will soon announce a 50-grain bullet with 5-caliber head to fill this need for an all-purpose cheap bullet in the smaller cartridges, such as the .22 Hornet, .22-3000 Lovell, .22 Niedner Magnum, .219 Zipper, Lovell

.22 High Power and .22 Hi-Power Savage. Such a bullet, I believe, would become universally and deservedly popular.

The .22 Hi-Power Savage

In states and countries which restrict game shooters and plinkers to the .22 caliber, the .22 Hi-Power Savage is popular and undoubtedly the .219 Zipper will win an equally warm welcome in such places. The M-99 Savage takedown rifle is inaccurate in .22 Hi-Power Savage caliber, but Major Askins demonstrated it would shoot into less than three minutes of angle with standard 70-grain factory



The cartridge and cases referred to in the text. All are shown exact size

ammunition in a heavy-barrel solid-frame M-99 lever-action rifle.

Member C. M. Anderson, who lives on Long Island bought a standard, lever-action, .22 Hi-Power Savage complete with Savage-Weaver scope sight and had splendid results with his handloads. He used one lot of cases over and over again with no signs of stretching, no extraction difficulty and without indications of pressures. He used the 40-grain Sisk bullet with 16 grains of No. 2400 and had fine results on small game. I judge his M. V. was close to 2900 f.-s. with pressures around 30,000 pounds.

Accuracy with this outfit seemed as good as any target outfit. I am reproducing his first target at 100 yards, fired while zeroing the Weaver scope. His first shot was the "nine" on the right. The next three were high "tens" on the line. He moved it down and got a touching "X" at 8 o'clock. His sixth shot was inside but a mite left. He moved it over and shot his 5-shot group in one hole, as shown. This measures only 0.37 inch. All eleven shots, including sighters, make a 1.78 inch group!

THE .22 HI-POWER SAVAGE IN HEAVY BARRELS AND SOLID ACTIONS

I NOTICE that Mr. L. H. S. would like to know what accuracy can be obtained with the .22 Hi-Power Savage (The Imp.) in a heavy barrel and good action. As I have been using and testing out this combination, for some time I will tell what results I have obtained with this cartridge.

I have been getting the .22 Hi-Power barrels from Savage with 12-inch twist, and in blank form. That is, just finished, not chambered or outside turned. They come in 30-inch length and $1\frac{1}{32}$

inches at the breech, straight diameter. I usually turn them down to taper to $\frac{3}{4}$ inch at the muzzle and from 26 to 28 inches length, and chamber close, so fired shells need no muzzle-resizing. I have been making my own shells from either .32 Special or .30-30 and .25-35 shells. After putting them through the die I ream each neck so the bullet fits just nice and snug without crimp. I am using W. R. A. No. 115½ and R. A. No. 9½ nonmercuric, noncorrosive primers, 23 grains of

HiVel No. 2 and 70-grain bullets of Western and Savage make. This is 2.4 grains less of this powder than the recommended charge for the .22 Hi-Power. But as my close chambers require a few grains less, I figure that 23 grains gives me at least 3200 f.-s. in 28-inch barrels. This load is very accurate and gives fine results in every way. The shells can be reloaded many times (they should be neck-reamed while in the die, so as to assure same size).

Now this combination, with Malcolm 10-power scope, will shoot better than $1\frac{1}{2}$ -inch groups at 100 yards. The recoil is very light and the trajectory over 200 yards can be ignored when shooting at Jacks, and it is a very good coyote rifle up to 300 or 400 yards. The rifle must be close breeched, and the tang screws in stock kept very tight. I also can chamber these barrels for the .30-40 case, necked to .22 caliber, but while it makes a nice cartridge and is a good strong case, I fail to see where it is much (if any) better than the .22 Hi-Power Savage shell for lever-action rifles. The .30-40 necked to .22 is O. K. in the Krag and makes a good .22 Hi-Power repeater of that good bolt-action rifle.

The Sisk 55-grain S. P. Express Magnum bullet and 25 grains of HiVel No. 2 works fine in the .22 Hi-Power. Also,

the Sisk 40-grain Full-Cased bullet and 15 grains of No. 1204, makes a fine rabbit load, and it will stop them up to 200 yards if there is not much wind. These light bullets are more affected by wind than the heavier ones. Also if one wishes a very cheap load for rabbits and similar game, the regular 45-grain lead bullet, cast for the .22 W. C. F. is O. K. with a light charge of No. 80. The bullet should be made quite hard, say 1 to 10, and well lubricated. The light, short, factory barrels would not zero different-weight bullets and different-speed loads even nearly in line with the same sighting, but these longer and heavier barrels are not nearly so sensitive. There are several other powders that work fine in this cartridge, namely, 4064, 3031, 4320 and Pyro D. G. 17½ and 15½ are also good.

It is hard to recommend maximum loads for any certain cartridge used in different rifles, because the chambers vary, also the different makes of bullets. Even in the same caliber and weight they sometimes vary a trifle in diameter and shape, and this causes different pressures from what might be expected. So always be sure you are playing safe and use a load that you know is under the maximum. Then you can easily work up to the load you want.—Bud Dalrymple.

ANOTHER FINE EXPERIENCE

F. W. CRENSHAW, JR., of Greenville, Alabama, has been getting fine results for two years now with the standard .22 Hi-Power Savage caliber. His rifle is a German military Mauser with a .22 Hornet barrel (.2238-inch grooves) fitted and closely chambered by R. F. Sedgley. He never cleans or oils the bore, which has become polished from bullet friction, but without throat-erosion on account of the long neck of the standard Savage case. After more than 2000 rounds it still shoots inch groups at 100 yards and into less than three inches at 200 yards.

Crenshaw is an expert target shot and can regularly stay in the 10-ring of the Decimal Target when shooting this outfit from prone with sling. In that 300-yard Sellers match, in which T. K. Lee took second place with the .220 Swift and his Smith Custom Load, Crenshaw did practically as well with his .22 Hi-Power Savage. He uses the Lyman 5-A scope zeroed an inch above aim at 100 yards and his impact is right on at 200 yards, which makes it fine for varmint shooting.

Crenshaw uses the 46-grain Hornet bullet and gives it all the velocity it will withstand, which is about 3500 f.-s. His pet load is 25.5 grains HiVel No. 3. For an economical load he recommends 27 to 28 grains Pyro D.G.

THE .220 SWIFT ON GAME

SINCE writing our report for the March Dope Bag, which indicated dependable killing effect of the .220 Swift on all varieties of deer at all ranges and angles, we have received several additional reports which fully substantiate the printed analysis and without a single exception thus far. We have other reports which deal with the shooting of other game with this excellent varmint cartridge.

A Michigan black bear faced the shooter at a quartering angle. At 125 yards the W.R.A. 48-grain bullet struck just left of the shoulder blade and "he was dead on



The .22 Hi-Power Savage "Imp" will shoot, judged by this target

his feet." The tiny bullet penetrated well before blowing up his "whole inside to a mere mass of jelly."

In Sonora, Mexico, two mature rams were killed with the W.R.A. 48-grain bullet at 150 and 300 yards, respectively. Neither of these mountain sheep was able to run after being hit but could only "stagger about aimlessly as though punch drunk." They were stone dead when reached. The shooter had previously used the .30-'06 on sheep and stated his preference for the .220 Swift after trial.

From Fairbanks, Alaska, comes a report (in a letter to J. B. Smith) on the killing effect of the .220 Swift on sheep, caribou, moose and bear which we will print in the author's own words. He and his friend used the M-54 Winchester with a Smith Custom Load consisting of 39.5 grains I.M.R. No. 4064 behind the Sisk .2225-inch 55-grain bullet.

On Caribou

"The caribou migration was starting so I went up into the caribou country and gave the gun a tryout. I had a friend along who tried a couple of shots with it and he fell in love with it at once, so much in fact that I just had to let him shoot the first five that we tried it on. Now, this boy is just about as indifferent

a marksman as I am, and some of his shots went into some very odd places, but not an animal got away once it was hit with your 55-grain bullet. Not one of these animals moved over ten feet after being struck, something that I have never seen happen in a string of 5 caribou shot with any other cartridge. Only one went down with one shot and that was the biggest bull. He was hit through the rump at about 110 yards and had about 10 inches of his spine completely shot out. I can speak of this range in yards as it was on an old telephone line where the tripods were placed at 50-yard centers. All other ranges were paced with long paces and carefully counted. My friend had difficulty in placing his shots and all of his animals were gut shot. All of these gut-shot animals dropped their heads as soon as struck and just shifted about on their feet for about a minute and then went down.

"My first shot with it was the longest of the day—210 paces—and was fired after the caribou started to move. The bullet struck him just where the neck joins the body at the breast and cut his gullet in two. He ran or rather staggered through the 'niggerheads' for about 40 yards, but I didn't shoot again as after his first few steps he turned and came back in my direction. Finally he dropped and was stone dead when I got to him. He had lost a lot of blood and looked as if he had almost bled to death. His lungs were torn up and a piece of the jacket went through one side of his stomach. This was the only animal that was in the least frightened before being hit, but I don't believe that he had yet winded us. It seems to me that wild game is more easily anchored if it has not been frightened before being shot. I shot 4 more caribou at ranges up to 150 paces and hit them through the shoulders and back of the shoulders, but as they didn't go down right away, I gave them another. It seems that these second shots were not really needed, but as I was not so sure of the gun, I wanted to be sure.

"We quit shooting then as we had to spend a day and a half taking care of all that meat. That little cartridge sure made some bad-looking wounds. They showed up a lot worse when we got the hides off. Any cartridge that will kill caribou like that will kill any game in Alaska, at least at 200 yards or under. Up here we believe that a caribou will pack more lead than any of our other animals. Moose are prone to lay down with any kind of a wound, but a caribou will keep on running if not hit just right.

On Moose

"Later, when drifting down river in the poling boat, I had a good chance at a moose standing in the willows about 70 yards away from the boat. I had a good shot at his right shoulder and let him have

it and he fell over backwards so hard that it sounded like a landslide. I felt sure of him and ran the boat ashore, but only found a big patch of blood where he had fallen. We waited for half an hour and then took a circle back through the brush and found him down on a bar about a quarter of a mile down river. He was down and couldn't get up, but had his feet tucked up under him just as if he was ready to spring up and take off, so I finished him with one through the head. Instead of hitting him squarely through the shoulder (he had evidently been standing quartering to me) my bullet went behind the shoulder and tore his stomach, guts and liver to pieces. Outside of being a dirty job to dress, he was fine. One of his ribs had been cut in two where the bullet went in and both parts of it were shattered for 6 inches from where the bullet had struck. This was about a 4-year-old bull and dressed about 425 pounds.

On Bear

"A friend of mine who has a wood camp about 4 miles from town borrowed the gun to try it on a bear who raised hell around his cabin every time it was left alone for a few days and killed two nice black bears almost inside the cabin. Both of them were killed instantly at less than 15 yards. One with a shot in the chest, and the other through the stomach.

On Sheep

"By this time the gun had quite a reputation and the boy who had used it on caribou with me bought it and all the remaining ammunition from me. He has killed two nice rams with it at ranges of 125 and 145 paces and used two shots on both. I then used it the next day and killed a good ram with 1 shot through the back as he was running up a rock slide about 90 paces away.

Reactions

"This is all that this gun and ammunition has been used on so far, and of course, one can't tell much about what a gun will or will not do by such a little bit of shooting. There will be quite a bit of game killed with this gun before next year, and the new owner is having it equipped with a Zeiss Zielklein scope and will have more practice with it. I didn't get much of a chance to do much hunting this fall and never sighted a grizzly after getting the .220 Swift. None of the caribou were big ones; all were Barren Ground bulls of from 125 to 180 pounds weight. Two of the bulls that I shot at around 150 paces and hit twice through the shoulders and chest were alive when I got to them but couldn't move. I have seen caribou with similar wounds from heavier bullets that had to be shot on the run as soon as they saw you coming close to them. I really don't think that this .220 Swift has had any trouble killing game that any

other big rifle wouldn't have had in the hands of two indifferent shots. Both of us have hunted for the market and have killed well over a thousand head of game such as one finds in this part of Alaska: moose, caribou, sheep and bears of all kinds. We are good judges of distance and good hunters, and can approach our game close enough to get good shots without guess work.

"This is the first time that I ever used such an 'explosive' bullet on game, and didn't like the way the pieces of the bullet tore the insides of all game up. Any of the animals we hit had pieces of the stomach torn open and the contents of the stomach mixed with the blood sure made butchering a dirty job. I was wearing waterproof sealskin boots and after a day's butchering, they looked as if I had been shoveling cow dung around a big dairy.

"All the caribou and the moose were shot through some small brush such as willows, but evidently the bullet either didn't hit a willow or else didn't blow up when it did hit, because I heard the bullets strike every time. I have since read quite an article on the .220 Swift by Elmer Keith, writing in *Outdoor Life*. He must be a pretty good shot by the shots he made in this story, but how he can decide so positively that this cartridge won't perform on big game when he never even tried it on one head of big game. I have always found that anything above a .22 will kill big game if you hit them in the right place and not at too long a range. And I have killed two sheep and one moose with a .22 Long Rifle cartridge in a .22-32 Smith & Wesson revolver. It took a cylinder full for each animal, but it killed them, just the same. Up here the most popular cartridges are .30-'06, .30-40 and .30-30. You can get those cartridges anywhere there is big game to be found. Down on the coast the popular cartridges are .25-20 and .25-35. Most of the game is seals and foxes and for these the natives like light guns and light cartridges.

"Now, this is about all for now. I am without my .220 and am back to the old 7-mm. But I believe that the .220 is plenty gun for any game that we have around here. If she ever fails on any of it, I will write you all about it. I, for one, will never condemn it until it has been tried on at least 50 big-game animals."

—JACK MCPHEE.

THE .22 NIEDNER MAGNUM

NOW that the .219 Zipper is available I believe interest in the .22-Niedner caliber will wane and become supplanted by a greater interest in the Winchester factory cartridge and in the longer .22 Hi-Power Savage case. However, the .22 Niedner Magnum is in the same general class of medium-power cartridges and it

has served well as an excellent varmint cartridge in custom-built rifles.

Our own was a heavy-barrel single-shot on the 44½ Stevens action. Although we still have it I say, "was", advisedly, because its soft rim-fire barrel has yielded to the high pressures and stresses of maximum experimental loads until the chamber has become large and misshapen. As compared with the dimensions of the new case (.25-35 necked down to .22 caliber) already quoted, note the discrepancies between the following dimensions of the fired case and the resized case:

(At)	Fired Case	Resized Case
Rim .....	.415 inch	.414 inch
¼ inch .....	.415 "	.402 "
½ " .....	.4105 "	.392 "
Shoulder .....	.370 "	.3565 "
Length	1.8125 "	1.813 "

Because the butt-stock had no binding bolt and fitted the tang insecurely Thomas Shelhamer of Niedner did not expect any worthwhile accuracy from this outfit. However, it performed well enough for shooting woodchucks with 21.8 grains HiVel No. 3 or 23 grains Pyro D.G. behind the Sisk-Niedner 55-grain and 63-grain bullets. It also killed well up to 200 yards, but was not tried at long range.

After the chamber had enlarged Mr. Shelhamer considered the rifle worthless for experimenting. Nevertheless we obtained some new cases and sizing die and set about completing our experiments with Pyro D.G. and I.M.R. No. 1185 behind the Sisk 55-grain S.P. bullet.

A good load was 27 grains No. 1185 and the R.A. No. 9½ primer which puts its five shots in 3.30 inches (4 in 2.34 inches) at 200 yards. Another grain added to the charge put its five shots in 2.50 inches. A 10-shot group with 27 grains put 8 shots in 3.05 inches, but two fliers enlarged the group to 4.18 inches. A load with the F.A. No. 70 primer and 24.5 grains of Pyro D.G. put its ten shots in 4.82 inches at 200 yards.

Our final load with resized cases was 26 grains of I.M.R. No. 4064 and the 54-grain W. & S. bullet, using R.A. No. 9½ primers. The only ten shots tried made a 3.90-inch group at 200 yards. We were pleased with these results and felt that a cartridge which would do that well in the swollen chamber of a poorly stocked rifle must needs have considerable merit and be basically sound in design.

The Niedner Rifle Corporation, R. F. Sedgley, Inc., Hervey Lovell and others are preparing to furnish chambering jobs, barrels and custom-rifles for the .219 Zipper cartridge in anticipation of its popularity. F. W. Beckert, Jr., has already tried the Zipper in a Savage barrel on the Krag action and he had fine accuracy even in a variable wind, which makes it look better to him than his .22 Niedner-Springfield.

FEDERAL AIRLINE, .22

THE theory behind the "Airline" bullet now featured by the Federal Cartridge Corporation is lessened mutilation in the bore, hence less air resistance and less skin friction in flight. It has no grooves or cross creases to allow formation of lead fins as the bullet is being cut by the rifling of the barrel. It is loaded in two types of smokeless cartridges, Xcess Speed and regular, both with lubricated lead-bullets. The latter has a brass case, and the regular load a copper case. Although Federal makes no pretense of loading match ammunition, the regular Airline load is surprisingly accurate in some small-bore target rifles.

We used the No. 6 Mossberg scope sight with Litschert 10-X objective at 50 yards and were pleasantly surprised to get groups of 1.88 and 1.98 inches with 9 shots in 1.34 and 1.40 inches, respectively. Kleanbore, shot for comparison in this prone test, made a 1.30-inch group with 10 shots.

At 100 yards, from bench rest, this Airline cartridge put its ten shots in 1.40 inches, which is exceptionally good. High-velocity Airline in the same test grouped in 3.95 inches. The target rifle used was an exceptional one, it being our new M-2 Springfield made up by Eric Johnson with one of his fine 8-groove barrels. I tried it from Cooper muzzle-rest with some old Veez-33 I had saved and had a 1.50-inch group at 100 yards, with 8 shots in .96 inch. We used our fine 1¼-inch Unertl 10X scope on this rifle.

In our M-37 Remington with factory aperture sights, Barr tried Federal Airline from the Cooper muzzle-rest and had successive groups of 2.31 and 2.95 inches at 100 yards, with 8 shots in 1.55 and 2.10 inches, respectively.

While testing the Airline cartridge for elevations in our Marlin-Ballard (Pope barrel) fired from bench rest, Barr had 10-shot groups of 1.40 inches at 50 yards, of 4.15 inches at 100 yards and 6.78 inches at 200 yards. He used the 4X Unertl scope in this test. At 50 yards he had 9 shots in 1.05 inches, and at 100 yards 9 in 1.75 inches.

From bore zero at 12½ yards this smooth Airline bullet required 36.4 minutes elevation at 200 yards, which is slightly subnormal. From the point of aim (which was 1.40 inches higher) at 12½ yards the 200-yard elevation was 26.4 minutes, required to land the group on the point of aim at the longer range. With the scope zeroed at 100 yards the impacts were nearly 3 inches high at 25 yards, about 3.5 inches high at 50 yards, about 3 inches high at 75 yards, 6.7 inches low at 125 yards, 13.5 inches low at 150 yards, 25.5 inches low at 175 yards and 42 inches low at 200 yards. The elevation

used for zero at 100 yards was 6.3 minutes above the scope-zero for 12½ yards.

The trajectory for 200 yards was 20 inches high at 100 yards. For 100 yards the trajectory was 4.7 inches high at 50 yards. For 50 yards the trajectory was 1.8 inches high at 25 yards. For 150 yards the trajectory was 10.7 inches high at 75 yards.

At 100 yards in the M-37 Remington heavy-barrel we found that Federal Airline smokeless exactly agreed in impact with old Federal Lesmok ammunition. Old R.A. Lesmok landed about 2 inches lower and Palma Hi-Speed went nearly 5 inches higher than Airline.

In another rifle Airline Xcess Speed went nearly 2 inches higher than regular Airline at 100 yards. In still another rifle Airline Xcess Speed went .65 inch higher than regular Airline at 100 yards and 2.85 inches higher at 200 yards. In our elevation test with the Pope-Ballard, Airline Xcess Speed made 10-shot groups of 1.37 inches at 50 yards and 6.60 inches at 100 yards. Zeroed to land on the point of aim at 100 yards this high-velocity load lands 4 inches high at 50 yards and nearly 36 inches low at 200 yards, when the line of sight is 1.40 inches above the bore line.

At 200 yards the elevations and accuracy of regular Airline was checked from Cooper muzzle-rest in the Eric Johnson barrel of our M-2 Springfield. The elevation for 200 yards added to the 100-yard zero was 19 minutes. The 10-shot groups were very good at 200 yards, or 6.10 and 4.53 inches with 8 shots in 3.90 and 3.48 inches, respectively.

This Airline is the best lot of Federal .22-caliber ammunition we have tested to date. It and the Xcess-Speed Airline functioned our autoloading pistols and gave, what we considered, normal scores for 50 yards in our 4½-inch Woodsman and standard-length Hi-Standard. In the Officers' Model regular Airline scored 84 and 86 at 50 yards with the only strings tried.

ANNOUNCEMENT

DUE to the similarity in names a number of shooters seem to be under the impression that the Frank A. Pachmayr Gun Shop is no longer in operation at 1220 South Grand Avenue, Los Angeles, California. It has come to our attention that mail and guns intended for this firm have gone elsewhere. We wish to notify all shooters desiring gun work done by Frank A. Pachmayr that it is important that they address all mail and guns to him at the above address.—Frank A. Pachmayr.

A LYMAN ACCOMPLISHMENT: THE NEW SUPER-TARGETSPOT

Lyman has something on the ball. We have been using No. 1 for a few days, which means the very first production sample, so they should be available by the time this announcement appears in print. It has a 34-mm. clear aperture in the objective, but the use of aluminum alloy in the enlarged front end has cut down weight appreciably. So much, in fact, that the instrument balances near the middle of the tube. Ours is a 10X with 12 feet of field at 100 yards. It is also available in 12X with 9¼-foot field and in 15X with 8 feet and 9 inches at 100 yards. The latter should make a marvelous scope for bench-rest shooting, long-range varmint shooting or for hard holders on the target range.

I say this after seeing the very fine cross-hairs of its reticle and because the optics are almost astounding to me. Never have I seen any better. In our uniform resolution test I find nothing with which to compare it short of the big spotting scopes designed for coaches and team captains. If any sighting scope will serve successfully for spotting individual bullet holes this Super-Targetspot must be it. This scope was so good when we first used it on the range several groups were fired with an imperfect adjustment before we realized we could actually improve it. If the Lyman factory can (and, of course, they think they can) duplicate the optics of this No. 1 production sample I would say that they have achieved the ultimate in sighting-scope manufacture.

As compared with the 28-mm. objective of the Targetspot, the one on the new Super-Targetspot has an adjusting sleeve bearing 50 graduations. The range-focus scale or setting marks on the immovable part indicate definitely each and every standard range (beginning with 50 feet) to 200 yards, which is infinity. Owners of Targetspots can have their objectives exchanged for this new 34-mm. improved type at a cost of \$12.00 net. The eye relief is 2 inches.

The Lyman target mounts have also been improved by adoption of the three-point suspension system. The clamping bases have been improved by adoption of the beveled hardened collar and circular beveled seat in the dovetail block, similar to the Fecker system. New hardened base blocks are now regularly furnished with these improved Lyman mounts for both the Targetspot and Super-Targetspot. The mount thimbles or adjusting bosses have also been improved by adoption of the standard micrometer system, making readings simple, accurate and foolproof. The new mounts complete with hardened base blocks cost \$12.50 list.

RESULTS WITH BELTED BULLET

We still consider this 225-grain bullet very accurate. In the December Dope Bag we reported an average center-to-center spread of only 2.60 inches at 200 yards with the Peters factory load in our .30-'06 M-70 Winchester equipped with 8X Fecker scope sight. The best 5-shot group at 200 yards measured only $2\frac{1}{4}$ inches. Although we reported the average results some of our readers thought the accuracy which we obtained too fine to be considered typical or representative of the Peters cartridge.

On our suggestion Colonel Whelen tried another lot of this Peters 225-grain ammunition in his own M-70 Winchester and he also obtained the finest accuracy, shooting from bench rest at 100 yards. Accordingly we obtained a third and different lot of this same Peters load and repeated our accuracy test at 200 yards, this time with a 4X Lovex scope in a Redfield mount. Because we now were using a hunting sight in place of the target scope we expected slightly larger groups. However, Barr's ten shots, fired March 19 at 200 yards, measured less than 3 inches, or exactly 2.95 inches, center to center. The extreme horizontals were 2.67 inches and the extreme verticals, 2.42 inches.

We are willing to accept this supporting evidence as proof positive, and are printing a photograph of the group in exact size on this page for the information of our readers. This belted bullet, of the controlled-expansion type, has a high sectional density and I believe the many operations required in its manufacture tend to give it a very uniform density as well as concentricity of form and mass to account for its fine accuracy. We are looking forward to the advent of these Peters Belted bullets in other cartridges. About midsummer they will be available in such popular deer cartridges as the .300 Savage, .303 Savage, .348 Winchester, .32 Remington and .32 Winchester Special.

TEAM CAPTAIN'S SPOTTING SCOPE

BACK in December 1935 we reviewed the big Bausch & Lomb 80-mm. 21X scope, tripod and packing case

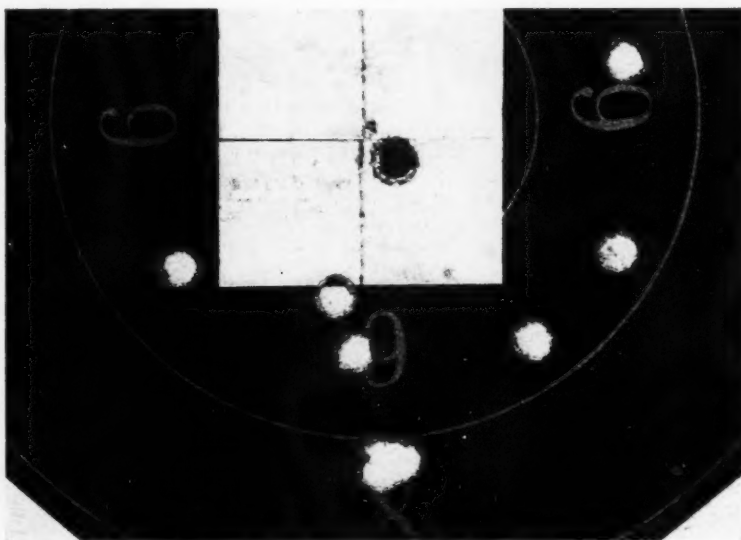
which comes complete at \$275.00. Even with the threaded holders filled with the other three interchangeable eyepieces the price remains under \$300.00. This makes it the most value for the least money in such outfits as we have seen. The other

In spite of the two handicaps we could pick out every .22-caliber bullet hole at 200 yards. The 25.6X eyepiece proved to be best for this particular job.

At 300 yards under the same conditions all the .30-caliber holes were visible and about 50% of the .22-caliber holes. One of the observers had best results here with the 25.6X eyepiece while another could get more detail with the 32.6X eyepiece. This severe 300-yard test was continued until 6:30 in the evening. Even at that late hour and in the shade the .22-caliber group in the bull could be seen and all individual .30-caliber holes except one. The 12.7X and 21.0X eyepieces proved inadequate in this test.

From our experience with this fine B. & L. outfit we

feel safe in recommending it for the use of any coach or team captain of any rifle team.



The Belted Bullet continues to give fine accuracy

magnifications represented are 12.7X, 25.6X and 32.6X.

We used one of these fine outfits until the summer of 1936, and at times were surprised by the excellent light-gathering capacity and the detailed contrast in the field of view afforded by its large (3.2-inch) objective. The sturdy B. & L. tripod of ash wood, adjustable for sitting or standing positions, and the B. & L. metal yoke, for quick and easy control of directions, made the outfit a very convenient one in use. At 600 yards we could follow in its field the flash of copper-jacketed bullets along their trajectory to the target, and also the air-wash in the wake of .220-Swift bullets. At this range the field with the 32.6X eye piece took in more than five target frames on the Camp Simms range of the D. C. National Guard. We could not see individual bullet holes with any eyepiece that day.

At 300 yards, which is the maximum range for rapid fire, and therefore an important one in relation to spotting .30-caliber bullet holes and groups, we tried the B. & L. team scope under adverse conditions. Late on a warm evening in June when the sun was bright but low we had our targets and the scope in the heavy shadows with bright light between which resulted in a peculiar screen of haze. There was only a mound of dark fresh earth behind the targets and hence no light reflected back through the bullet holes.

TWO SUPER-TARGET JOBS BY KING

D. W. KING with his Super Target revolvers has successfully solved the problem of circumventing the latent unreliability of the adjustable Colt front sight and the adjustable Smith & Wesson rear sight. King's "click"-controlled, revolver sight with automatic lock, which takes care of both ends of the sighting base, is, in my opinion, far more reliable than the factory product. The King ventilated rib also improves the balance and appearance of the revolver, and King's work on the action and trigger is equal to any which has come within the scope of my experience.

In fact with his practical improvements for target shooting I would now prefer an Official Police Colt or a Military & Police Smith & Wesson from King to the Officers' Model Colt or the K-Model S. & W., respectively, from their respective makers. The non-reflecting matting on top, the favorable muzzle-weight of the $1\frac{3}{4}$ -ounce rib, the proper King front sight and the smooth King trigger pull all help to improve groups and scores in offhand shooting.

I would suggest the $\frac{1}{8}$ -inch width and the undercut Dead Black Steel sight for target shooting or the square post Gold sight for field shooting and target work.

The rear-notch should be square and plain. None of us here care for the white-outline and besides we have noticed this enamel is prone to chip off and leave an unsightly appearance.

Below we show the two sample King jobs on which our expressed opinion is based. The upper revolver is our 6-inch S. & W. K-Model in .32 S. & W. Long caliber, which with wadcutters loads is a fine target and small-game gun. It has the wide undercut King front sight, and is equipped with the grips we prefer on this model, consisting of the S. & W. Magna stocks and shortened Pachmayr grip adapter.

The lower revolver is Frank Wyman's Official Police Colt with 5-inch barrel in .38 Special caliber. It has the Colt stocks augmented with a grip adapter fashioned from plastic wood by Frank. On this gun, we prefer for neatness and convenience the Slip-On grip adapter in shallow model, which we like as well for shooting after its finger rest has been flattened and broad-

ened by filing. The front sight is the King square post Gold sight. This sight, as shown on Frank's gun, is too low to be practical, and will have to be replaced.

Note that Frank's gun is equipped with the King Cockeyed hammer. It is so called on account of the lip which projects from the spur only on the left side, for convenient non-miss manipulation by the right thumb in rapid-fire practice. This spur is also improved by the King "Never Slip" checking. The purpose of the Cock-eyed hammer is to permit cocking, without rolling the gun or loosening the grip, by a simplified diagonal motion of the thumb. I am not completely sold on it as yet, because it has served to interrupt my practice involving a more familiar technique. However, I realize that continued use changes one's initial reactions and I may become more enthusiastic after further familiarity. Frank is already satisfied with it after but little use.

Our revolvers as returned to us by King

MISCELLANEOUS

"A CENTURY OF ACHIEVEMENT" is the title of a 100-page firearms manual (6¾ x 9 inches) published by the Colt Patent Firearms Manufacturing Company in celebration of the one hundredth anniversary of the founding of the company by Sam Colt in 1836.

It is a beautiful and fitting testimonial to Colt achievement throughout the elapsed century. A beautiful printing job laid out on a background of royal blue and white with fascinating pictures of former Colts which show each important stage in the development of the modern Colt firearm and embellish and enhance the enthralling informative story of Arthur Ulrich, secretary of the company with which he has been associated for fifty years. His story is a biography of Sam Colt as well as a history of Colt firearms. It is also an official Colt reference work on all Colt models, superior to any we have seen from the standpoint of conciseness and convenience.

(Continued on next page)



This firearms manual is arranged in sections. There are three 26-page sections, and a 10-page section on "How To Shoot" by Charles Askins, Jr. The penultimate part is an engrossing proxy trip through the spacious and busy factory at Hartford in which the reader follows, through the plant, the manufacture of a Colt from raw steel to finished gun. The middle section catalogs all modern models as now made. The first section on development history describes and beautifully illustrates from Albert Foster's choice collection (and I can sense Bert's influence in the authentic arrangement) all representative old Cap-and-Ball models from the Texas Paterson and Pocket Patersons through the Dragoons, Navy Model and Army Models to the New Line cartridge models and the immediate predecessors of present-day models. It is a wonderful story of a wonderful achievement, one which every gun lover will want to read.

The book is an especially fine souvenir of Colt's 100th anniversary; so important every shooter should have it in his collection. It also marks the first time in Colt history that that firm has made a charge for its literature, as the price is 25 cents. This charge was made necessary by the great expense attending the comprehensive scope and artistic treatment of the work and by the anticipated heavy demand, since realized. Their first announcement (in *THE AMERICAN RIFLEMAN*) resulted in more than 2,000 requests. There is also a deluxe edition with a heavily embossed cover, which is sufficiently attractive in its delicately rich colors of silver and blue to grace any select library. This one costs one dollar.

A Low Mount Base for the 422 Expert scope is now made by the Lyman Gun Sight Corporation, Middlefield, Connecticut. The new mount base permits mounting this scope fully 5/16-inch lower than the high base on the barrel or receiver of rifles adapted to low scope mounting. This adds to the practical value of that very good 422 Expert scope in that it is less vulnerable to knocks or bumping and, equally important, it makes for better cheek support on the rifle stock. Optically the Expert is probably the best scope in the low-price class of telescopic sights.

A side-mount base is also made for the same scope. This base also permits low mounting of the scope. But with the attaching screw holes only 1-3/16-inches apart, it does not give the same rigid support for the overhanging scope as does the top-mount base with its attaching screws spaced 2 3/4 inches apart.

These bases are interchangeable as the scope and mount are held to the base by means of the elevation pivot and locking

screws. The low-model, top-mount base can be used on a rifle that is already drilled and tapped for the high top-mount base.

A Litschert Scope Attachment which increases the magnification of the cheaper telescope sights to 10X is made by Mr. Ralph A. Litschert of Winchester, Indiana. This attachment is in the form of a steel tube 5 inches long that fits the threaded front end of the scope tube. The entire objective-lens unit (lens and cell) in the front end of the scope is removed before installing the Litschert attachment. The latter is equipped with an achromatic objective lens that is focused at different ranges by rotating a sleeve which fits over the attachment. The sleeve is not graduated except for one mark that is used for a starting point to facilitate counting the number of revolutions required to focus for different ranges.

We used one of the attachments on a low-price scope that has very poor, cloudy lenses. The result was a decided increase in magnification and visibility but the eye lens of this scope was not good enough to utilize the full advantages of the attachment. We could not use the attachment on other scopes because of slight variation in the threads. For this reason all scopes should be sent to Mr. Litschert for fitting the attachment, which can be made up for use on any low-power scope including the Lyman 5A.

The enameled finish of the attachment is very easily scratched or marred but the reason for not having a better finish is to keep down the retail cost to \$6.50. It is for the same reason that the focus-adjusting sleeve is not marked or graduated for different ranges. We are having one of the attachments fitted to our No. 4 Malcolm 4X scope which we will use for further tests.

3630 f.-s. with a .27-Caliber Bullet is the new high standard established by Winchester in their 100-grain S.P. cartridge for the .270 Winchester. Furthermore, the bullet is pointed and has the high remaining velocity of 3283 f.-s. at 100 yards. The remaining velocity of the .220 Swift, 56-grain O.P. bullet is only 3060 f.-s. which is that of the .300 Magnum target bullet at the muzzle. At 100 yards this pointed 180-grain bullet has about 2850 f.-s. of its initial velocity left. The 235-grain O.P. bullet of the .375 Magnum loses about 1 f.-s. per foot between the muzzle and 100 yards; the loss is somewhat greater over the last half of the trip.

The sectional density of the new Winchester 100-grain bullet, based on a diameter of .278 inch, is .235, making it equivalent to a 150-grain .30-caliber bullet. The 100-grain, .257 Roberts bullet has a higher sectional density (.270) but a less-efficient

nose-shape for sustained exterior ballistics. However, we know it has given good results on both deer and woodchuck at 300 yards and over even longer ranges. Hence we can assume that this better-shaped bullet will do at least as well in the .270 Winchester, providing it is equally accurate, which essential qualification remains to be proven.

The 130-grain standard bullet in this caliber is equivalent to a 180-grain .30-caliber bullet for big-game shooting. There is also a 150-grain S.P. bullet at 2850 f.-s. m.v. designed as a meat saver for deer hunters. Providing the new long-range varmint bullet proves to be adequately accurate for hitting said varmints, the .270 Winchester should become even more popular as an all-around gun. Then we will lack only cheap bullets for reloaders in this caliber. An accurate and efficient lead-alloy, gas-check bullet might fill the void. Probably the Gipson gas-check bullet can qualify for this, or it might be that Loverin will adapt his efficient design of .22, .25 and .30-caliber gas-check bullets to this .278-caliber for .270-Winchester fans.

New Safety Firing Pin is cheap insurance against gas attacks at only \$1.50. Our Rock Island M-1903 rifle bears a serial number lower than No. 285,507 which means it has the older case-hardened receiver. Springfield Armory receivers prior to No. 800,000 were also of this "old-brittle" type. Wanting a greater margin of safety we sent the rifle to R. F. Sedgley, Inc., Philadelphia, Pa., for his action-toughening job of heat treatment and additional safety features in the bolt. Upon the return of this rifle an examination revealed nothing new in outward appearance except an additional large gas-escape hole in the bolt back of the extractor collar. Upon disassembling the bolt we found a safety lug had been fitted to the striker in back of the firing-pin sleeve. This is done to prevent the striker from being blown out, should the striker head and sleeve shear off when a high-pressure primer is punctured by the firing pin. All 1937 Sedgley Springfields are equipped with this safety striker.

This job is very cleverly done by simply fitting a slotted collar over a flat recess cut in the striker at the right place. For adequate strength, assurance and safety we can recommend this effective job to other owners of old-type Springfields. Sedgley also checks and corrects excessive headspace, which is sometimes a dangerous feature of these old-issue M-1903 rifles. He can also proof-fire the barrel and action, install a new barrel, fit sporting sights or a stock, or remodel the gun into a sporter while it is at the plant.

LETTERS TO THE DOPE BAG

Likes Pickling Bores

DEAR MR. NESS:

I am very sorry to learn that you have been deluged with inquiries from readers who read Jim Howe's article called "Breaking in the New Rifle." I feel rather guilty, because I sold this article for Mr. Howe, as his agent, and as a matter of fact, I suggested it to him, after I had used his advice in regard to my own rifle, and those of a few friends of mine.

Last summer, during a conversation with Mr. Howe, I learned for the first time of the method of setting a bore by heating it up and then pouring cold water through it. Since anything Jim says is gospel truth with me, I tried out the method on a range in New Jersey. Previous to this experiment my rifle had been fired about 500 times, and wasn't grouping any too well, especially at the end of a long string. The treatment did help considerably, because my groups were smaller by about a half inch or so, at 100 yards. Other shooters report good results with this method on a 1917 Enfield, a Springfield, and various 22-caliber target rifles.

I won't attempt to explain what takes place, because I haven't the technical knowledge. As the author of "The Modern Gunsmith," Jim Howe, I feel, knew what he was talking about, and in my experience, at least, I found he was right. Too, I believe that the settling of the particles of steel into quiet patterns through the tempering process brings about the greater accuracy.

The article on "Pickling Bores" was one of Jim's first magazine pieces. Previous to this, as far as I know, he hadn't attempted any magazine stuff, and as I said, he wrote this article and a few others only because I urged him to do so.—A. L. FIERST.

Three Letters

No. 1

I READ with a great deal of interest Mr. J. Bushnell Smith's article in the February RIFLEMAN comparing the .375 H. & H. Magnum and the .35 Whelen. Mr. Smith would have us believe, that in spite of its greater size, the .375 H. & H. Magnum is less powerful than the .35 Whelen and quotes velocities and energies. Let us examine the same. Mr. Smith forgot to tell us that the 2,750 f.s.m.v. for the .35 Whelen was obtained from a 28-inch barrel. As 95% of hunting rifles have a barrel length of 24 inches, we will then have to ask Mr. Smith to knock off from 100 to 125 foot seconds from his 2,750 foot seconds which means that the energy of the .350 Whelen with the 250-grain bullet will drop well below 4000 ft.-lbs. The velocities he gives, for the .375 H. & H. Magnum are from rifles with a barrel length of 25 inches, the standard length of the British makers in this caliber.

It is also well known that the Western Cartridge loadings in this caliber are a joke due to, I think, the floating around in the country of some pot-metal Mausers chambered and rifled for this caliber, and, perhaps to protect themselves, the Western Cartridge Company had to keep their pressures down to around 40,000 to 42,500 lbs. per square inch.

The British ammunition for the .375 Magnum knocks the Western Cartridge loadings for the same caliber into a cocked hat.

Apart from its larger caliber (.375-inch) and heavier bullet (300 grains) which gives it a decided superiority, if we compare the .35 Whelen with the .375 H. & H. Magnum the .35 Whelen with its maximum loading and the .375 Magnum with the Western Cartridge loading, even then the Whelen is out-

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classed, if the barrel lengths are equal. And with the British loadings it would be a farce.

Like many other enthusiastic admirers of the .35 Whelen (and it is a fine load) I am afraid that Mr. Smith did not examine the picture, closely enough. When the .375 Magnum is properly loaded to its capacity, the best .35 Whelen ever whelped could not stay in the same room with it.—C. F. VARDON.

No. 2

I'm all cocked on this argument regarding the TERRIFICALLY superior British loads for the .375 Magnum.

Granted they *do* make more powerful loads for the cartridge than available in this country, despite Winchester's figures, still the British load is less powerful than a maximum .35 Whelen load.

I am enclosing a letter from Holland & Holland giving the ballistics of their .375 loads. Of course, these loads use M.D.T. Cordite, and for tropical use, must be cut a little from above. You will note that just one load given, the 270-grain-bullet one, compares favorably with the best .35-Whelen 250-grain load. AND, remember, M.D.T. Cordite! No American powders will give these results.

I do not know just what barrel lengths these figures were obtained with, but as the British go in for longer barrels than we do, on the average, I would judge these might have been obtained with 26-inch or 28-inch lengths, which are correct for these large cartridges.

Winchester uses 26 inches, not 24 inches as Mr. Vardon implies. Even sacrificing 2 inches on the .35, which would make it 26 inches, we would lose no more than 25 f.-s. per inch, probably not that with the large bore. So, we would still be ahead of ACTUAL .375 ballistics possible with any domestic powder.

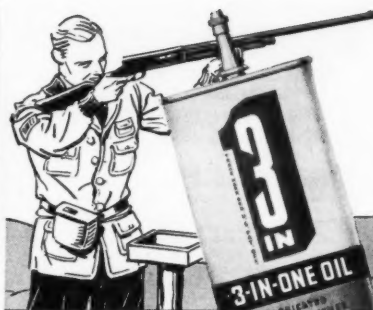
I happen to know that Winchester is using No. 4064 in the .375. I also am familiar with Winchester's method of figuring muzzle, or "initial," velocity, which is to add to the actual instrumental velocity. The tests we had run with the .35 Whelen were figured on instrumental velocity, by the way.

Now that we have a standard rifle, built in this country, for the .375, I look for an early development in the powder line that will give this cartridge ballistics equal to those obtained by Kynoch and others. Until this powder is developed, we cannot touch them at all.—J. B. SMITH.

No. 3

We have to thank you for your esteemed inquiry of the 23rd ultimo, and in reply have pleasure in giving below the information called for:

Holland & Holland .375 Magnum rimless belted cartridge.			
Bullet	Velocity	Energy	
235-grs.	2,800 f.-s.	(At the muzzle)	
270-grs.	2,650 "	4,090 ft.-lbs.	
300-grs.	2,500 "	4,210 "	
		4,070 "	
		(At 100-yard)	
Bullet	Velocity	Energy	
235-grs.	2,535 f.-s.	3,360 ft.-lbs.	
270-grs.	2,415 "	3,496 "	
300-grs.	2,253 "	3,390 "	



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Remington 25A

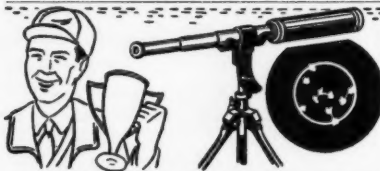
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25R Rem. 25/20	2245
Carbine 18 1/2" barrels	
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AL FREELAND
1602 1/2 St. St., Rock Island, Ill.

As you are doubtless aware, in estimating the value of a particular cartridge, bullet effect must be taken into consideration, and those bullets used in the .375 Holland & Holland Magnum are designed as the result of many years of experimental work, supported by actual test observations carried out on game in all parts of the world.—Holland & Holland, Ltd., 98, New Bond Street, London, W.1.

(NOTE: Merton A. Robinson, Ballistic Engineer for Winchester, throws some light on this matter, which ends the discussion as far as we are concerned. His letter informs us that the Small Arms Ammunition Institute has agreed on the following INSTRUMENTAL velocities for the .375 cartridge, taken over a range of 150 FEET in a 24-INCH BARREL: 235-grain bullet, 2775 f.-s.; 270-grain, 2650 f.-s. and 300-grain, 2475 f.-s. Winchester and Western, of course, will follow this standard.

At the Winchester plant "these cartridges are fired for velocity in the regulation M-70 rifle equipped with 24-inch barrel over a range of 150 feet." On January 8th, of this year, the Winchester laboratory reported on a test in a 26-inch pressure barrel. The excess 2 inches of length serves an adjustment purpose, because sometimes it is necessary to cut off the breech end for rechambering to adjust or perfect the relationship between piston and piston hole after excessive throat erosion has developed. In this caliber a few inches reduction in the barrel length from standard reduces the velocity about 20 f.-s. per inch removed. The results of that test in the 26-inch pressure gun, as expressed in mean velocity, were: 235-grain, 2787 f.-s.; 270-grain, 2717 f.-s. and 300-grain, 2517 f.-s.

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New 1937 series of Sungold Trophies, also three new series of lower priced medals. Send 10c now for fully illustrated Trophy Catalog.

J. Warshaw & Sons, First & Madison-B, Seattle, Wa.

The earlier ballistics for the .375 H. & H. Magnum American ammunition as made by its pioneers, the Western Cartridge Company, were much lower than the present standard, because they were developed in a foreign rifle, which may have had a loose chamber or a worn barrel.—F.C.N.)

BIG BULLETS IN THE M-17

I HAVE recently acquired an M-1917 Remington Enfield, which has been quite handsomely remodelled and stocked, and I would like to load ammunition for it. The rifle, although purchased as "used," appears to be in perfect condition. The headspace is correct, the bore shows no sign of wear but, as is generally the case with these rifles, the groove diameter is .311". What I would like to know is this. Would it be practical, and if so would there be any advantage from the standpoint of accuracy and accuracy-life of the barrel, of using bullets intended for the .303 British? I have made up one dummy cartridge and it seems to fit perfectly in the chamber. If this idea strikes you as a good one would you be good enough to suggest a load using the 173-grain pointed bullet which would give good accuracy up to five hundred yards or so on the range and with an expanding bullet of the same weight and form be suitable for deer shooting in the East? I want a conservative load with the best accuracy rather than an especially high-power one.

At the same time I would appreciate any suggestions for a good load using a gas-check bullet giving the maximum range and accuracy possible with a cast bullet.—L. H. S.

Answer: In the M-1917 barrel, which sometimes is oversize in groove diameter, jacketed bullets larger than standard have been successfully used. These include the .303 British and 7.62-mm. Russian bullets. The .303 British bullets run .311 inch and the Russian bullets .310 inch. I do not care to recommend loads with such bullets as it is sometimes dangerous to use oversize bullets and our own M-1917 bore will not accept the smaller 7.62-mm. Russian bullet. While I think you can get by with it, I am unwilling to assume any responsibility. However, I might suggest that if you want to try it for an accurate target load at moderate velocity you might try it with the 173-grain bullet and a load developing between 2200 and 2250 f.-s. Such a load would be 33 grains HiVel No. 2 powder in the .303 British case and 36.4 grains weight in the .30-06 case. With normal bullets or normal groove diameters the pressures are under 30,000 pounds. Under abnormal conditions, however, pressures are higher and uncertain, though they should not be unduly dangerous at this level which is 12 1/2 grains under maximum.

The same load of HiVel No. 2 should do very well with a heavy gas-check bullet weighing around 200 grains and I think you will get the best results with a 190-grain to 220-grain gas-check bullet. HiVel No. 3 or No. 2400 powder may give better results with gas-check bullets and also 4198 or 4227. These quicker-burning charges should be used in lighter loads ranging from 17 grains weight to 22 grains weight in the .30-06. If the accuracy continues they can be increased to 25 grains weight safely enough.



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Advertisements for The Members Exchange are accepted from members of the National Rifle Association, for their individual and personal transactions exclusively, at 7¢ per word INCLUDING NAME AND ADDRESS, minimum charge \$1.00. Please give complete name, so as to

facilitate the proper issuance of money-orders. All dealers' advertisements are grouped under The Trading Post, the rate for which is 9¢ per word INCLUDING NAME AND ADDRESS, minimum charge \$1.50. Groups of letters and figures are computed as one word. No box number or blind ads accepted. All advertisements must be accompanied by cash or they will be disregarded. Final closing date is the 5th of the preceding month. Please print all advertisements plainly—we cannot be responsible for errors due to illegible writing.

In describing the condition of guns advertised the following standard phrases must be used: *Perfect* means factory condition. *Excellent* means new condition, implying negligible amount of use. *Very good* means practically new condition, implying very little use, resulting in no appreciable bore wear and very few and only minor surface scratches or wear. *Good* means moderate use with some finish worn off, and only moderate bore wear with no pits and nothing worse than a little roughness in the bore. *Fair* means reasonably hard service, reasonable wear inside, and nothing worse than a few very minor pits in the bore, implying the gun is practical and sufficiently accurate for hunting purposes. *Poor* means marred appearance and pitted or badly worn bore.

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For N. R. A. Members only, for their individual and personal transactions. This section provides a quick, inexpensive means for disposing of guns and accessories no longer needed, or for the purchase of more suitable similar items. We urgently request that a full description be given of every article offered, and its condition (see complete instructions above), for transactions of this sort must be based entirely on good faith and mutual satisfaction. Deliberate misrepresentation will of course result in immediate expulsion from N. R. A. membership.

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H&R SPORTSMAN S.A. 22, H.B., \$13.50. Savage M/22 Sporter, good out, perfect in, \$11.00. Stevens #44, 25-20 SS, \$10.00. Marlin M/27 slide repeater, .25 RF, \$10.00. C. L. Hennig, 4625 N. 52 St., Omaha, Neb. 5-37

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30-06 SPRINGFIELD, custom made beavertail fore-end stock, recoil pad, Watson front, Lyman 48 rear, very good, \$75.00. 8 mm Mauser, custom made Mannlicher stock, recoil pad, ramp front, Redfield rear, very good, \$55.00. .45 Automatic, new barrel, very good, \$22.00. Dr. E. J. Witzel, 17138 Lorain Ave., Cleveland, Ohio. 5-37

SYRACUSE LEFEVER, 16, ejectors, good, \$30.00. Smith 10, #2, good, \$25.00. 257 Neidner Mauser D.S., Lyman 48, v.g., \$55.00. 25-35 Savage, Fancy stocked, good, \$30.00. 45-70 Lee, fair, \$8.00. Want—22-32 S&W. Oluf Bearrood, Comstock, Wis. 5-37

ONE SHOOTER tells another about "Smoothie" and its faster, more efficient action. Use it! Convince yourself! 40¢. Floyd Hartman, 212 Franklin, Buffalo, N. Y. 5-37

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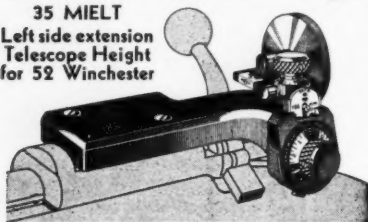
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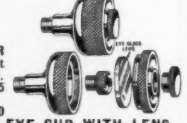
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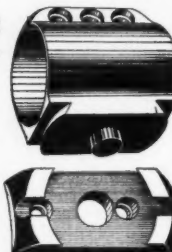


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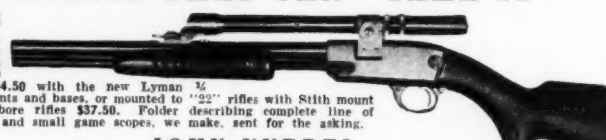
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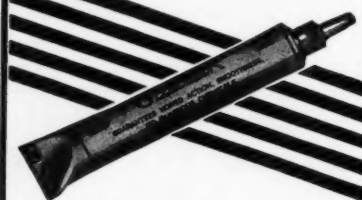


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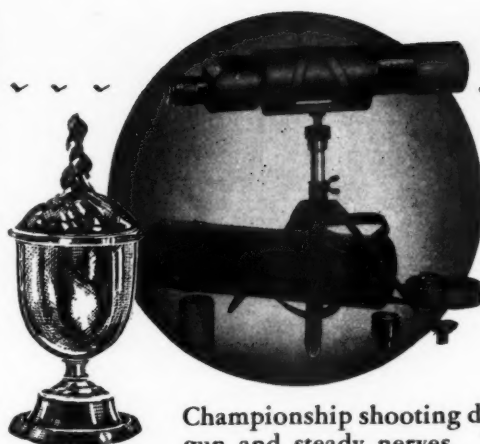
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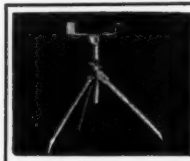
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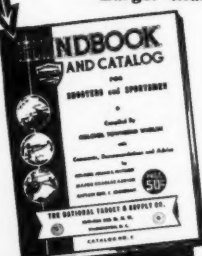
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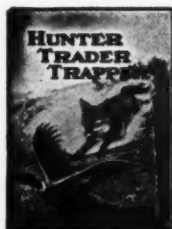


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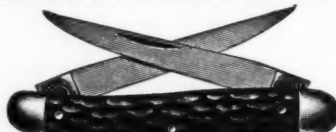


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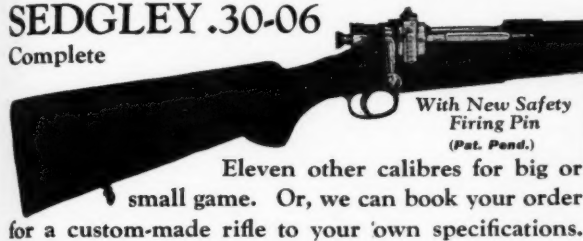
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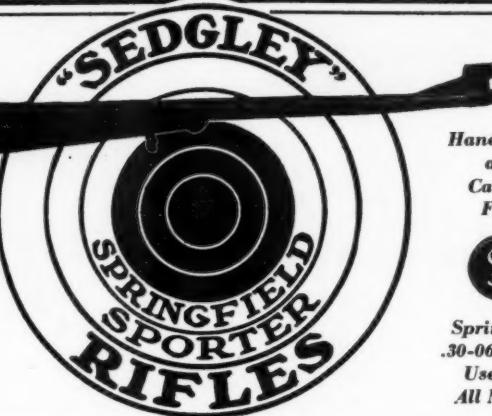
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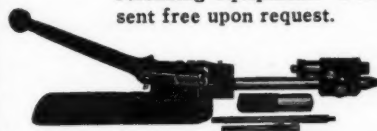
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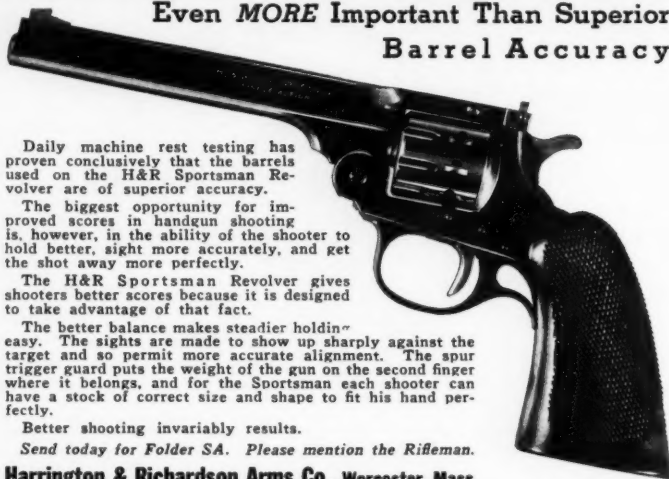
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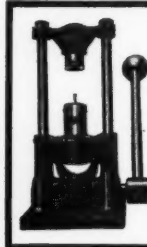
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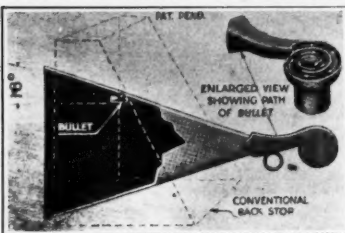
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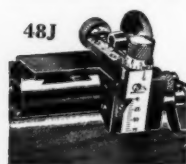
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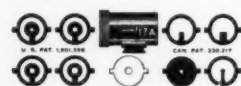
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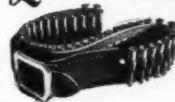
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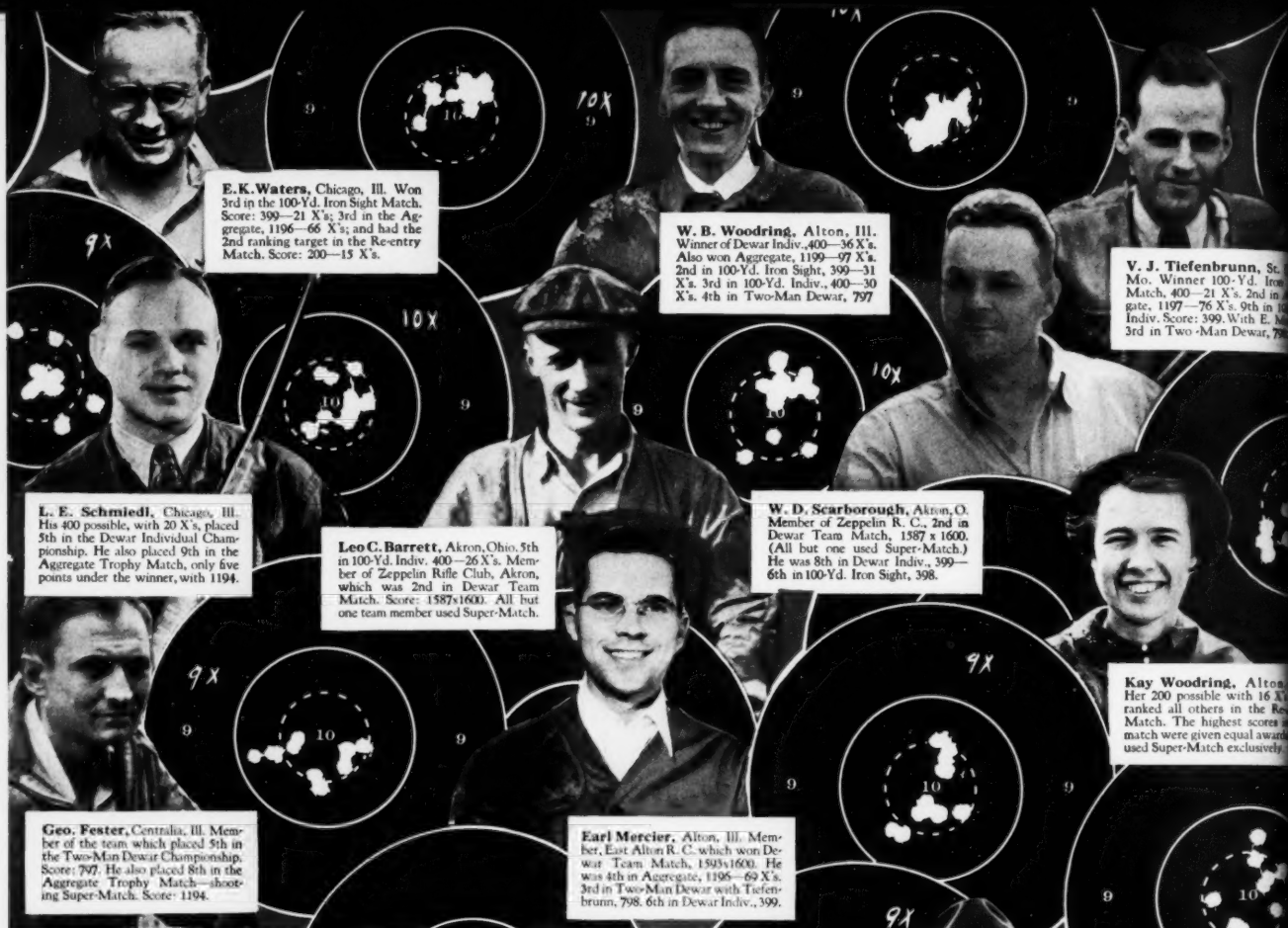
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E. K. Waters, Chicago, Ill. Won 3rd in the 100-Yd. Iron Sight Match. Score: 399—21 X's; 3rd in the Aggregate, 1196—66 X's; and had the 2nd ranking target in the Re-entry Match. Score: 200—15 X's.

W. B. Woodring, Alton, Ill. Winner of Dewar Indiv., 400—36 X's. Also won Aggregate, 1199—97 X's. 2nd in 100-Yd. Iron Sight, 399—31 X's. 3rd in 100-Yd. Indiv., 400—30 X's. 4th in Two-Man Dewar, 797.

V. J. Tiefenbrunn, St. Mo. Winner 100-Yd. Iron Sight Match, 400—21 X's. 2nd in Aggregate, 1197—76 X's. 9th in 100-Yd. Indiv. Score: 399. With E. K. Waters, 3rd in Two-Man Dewar, 797.

L. E. Schmiedl, Chicago, Ill. His 400 possible, with 20 X's, placed 5th in the Dewar Individual Championship. He also placed 9th in the Aggregate Trophy Match, only five points under the winner, with 1194.

Leo C. Barrett, Akron, Ohio, 5th in 100-Yd. Indiv. 400—26 X's. Member of Zeppelin Rifle Club, Akron, which was 2nd in Dewar Team Match. Score: 1587x1600. All but one team member used Super-Match.

W. D. Scarborough, Akron, O. Member of Zeppelin R. C., 2nd in Dewar Team Match, 1587x1600. (All but one used Super-Match.) He was 8th in Dewar Indiv., 399—6th in 100-Yd. Iron Sight, 398.

Kay Woodring, Alton, Ill. Her 200 possible with 16 X's ranked all others in the Re-entry Match. The highest scores in match were given equal awards. Used Super-Match exclusively.

Geo. Fester, Centralia, Ill. Member of the team which placed 5th in the Two-Man Dewar Championship. Score: 797. He also placed 8th in the Aggregate Trophy Match—shooting Super-Match. Score: 1194.

Earl Mercier, Alton, Ill. Member, East Alton R. C., which won Dewar Team Match, 1593x1600. He was 4th in Aggregate, 1196—69 X's. 3rd in Two-Man Dewar with Tiefenbrunn, 798. 6th in Dewar Indiv., 399.

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F. O. Parker, Rock member of the Milwaukee 6th place in the 100-Yd. Championship at the Invitational Indoor Match. Shooting Super-Match, 22's.

Edwards Brown, Alton, Ill. Member of the East Alton Rifle Club, winners of the Dewar Team Match. Score: 1593x1600. With W. B. Woodring, Brown placed 4th in the Two Man Dewar. Score: 797.

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